

DENON

AV SURROUND RECEIVER

AVR-1508

Owner's Manual

Bedienungsanleitung

Manuel de l'Utilisateur


Manuale delle istruzioni

Manual del usuario


Gebruiksaanwijzing

Bruksanvisning

SAFETY PRECAUTIONS



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

• DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of 2006/95/EC and 2004/108/EC Directive.

• ÜBEREINSTIMMUNGSERKLÄRUNG

Wir erklären unter unserer Verantwortung, daß dieses Produkt, auf das sich diese Erklärung bezieht, den folgenden Standards entspricht: EN60065, EN55013, EN55020, EN61000-3-2 und EN61000-3-3. Entspricht den Verordnungen der Direktive 2006/95/EC und 2004/108/EC.

• DECLARATION DE CONFORMITE

Nous déclarons sous notre seule responsabilité que l'appareil, auquel se réfère cette déclaration, est conforme aux standards suivants: EN60065, EN55013, EN55020, EN61000-3-2 et EN61000-3-3. D'après les dispositions de la Directive 2006/95/EC et 2004/108/EC.

• DICHIARAZIONE DI CONFORMITÀ

Dichiariamo con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti normative: EN60065, EN55013, EN55020, EN61000-3-2 e EN61000-3-3. In conformità con le condizioni delle direttive 2006/95/EC e 2004/108/EC. QUESTO PRODOTTO E' CONFORME AL D.M. 28/08/95 N. 548

• DECLARACIÓN DE CONFORMIDAD

Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siguientes estándares: EN60065, EN55013, EN55020, EN61000-3-2 y EN61000-3-3. Siguiendo las provisiones de las Directivas 2006/95/EC y 2004/108/EC.

• EENVORMIGHEIDSVERKLARING

Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit produkt, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen: EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3. Volgens de bepalingen van de Richtlijnen 2006/95/EC en 2004/108/EC.

• ÖVERENSSTÄMMELSESINTYG

Härmed intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder: EN60065, EN55013, EN55020, EN61000-3-2 och EN61000-3-3. Enligt stadgarna i direktiv 2006/95/EC och 2004/108/EC.

DENON EUROPE
 Division of D&M Germany GmbH
 An der Landwehr 19, Nettetal,
 D-41334 Germany

CAUTION:

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet. The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

VORSICHT:

Um dieses Gerät vollständig von der Stromversorgung abzutrennen, ziehen Sie bitte den Stecker aus der Wandsteckdose. Der Netzstecker wird verwendet, um die Stromversorgung zum Gerät völlig zu unterbrechen; er muss für den Benutzer gut und einfach zu erreichen sein.

PRECAUTION:

Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale. La prise secteur est utilisée pour couper complètement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accéder facilement.

ATTENZIONE:

Per scollegare completamente questo prodotto dalla rete di alimentazione elettrica, scollegare la spina dalla relativa presa a muro. La spina di rete viene utilizzata per interrompere completamente l'alimentazione all'unità e deve essere facilmente accessibile all'utente.

PRECAUCIÓN:

Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared. El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.

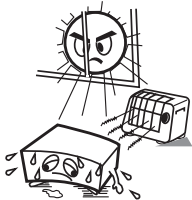
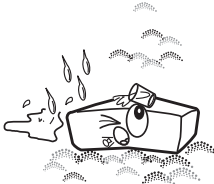






WAARSCHUWING:

Om de voeding van dit product volledig te onderbreken moet de stekker uit het stopcontact worden getrokken. De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn.

FÖRSIKTIHETSMÅTT:

Koppla loss stickproppen från eluttaget för att helt skilja produkten från nätet. Stickproppen används för att helt bryta strömförsörjningen till apparaten, och den måste vara lättillgänglig för användaren.

NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENSTE GEBRUIKEN / OBSERVERA ANGÅENDE ANVÄNDNINGEN

 <ul style="list-style-type: none"> • Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. • Vermeiden Sie hohe Temperaturen. Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird. • Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. • Evitate di esporre l'unità a temperature elevate. Assicuratevi che vi sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio. • Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola. • Vermijd hoge temperaturen. Zorg er bij installatie in een audiorack voor, dat de door het toestel geproduceerde warmte goed kan worden afgevoerd. • Undvik höga temperaturer. Se till att det finns möjlighet till god värmeavledning vid montering i ett rack. 	 <ul style="list-style-type: none"> • Keep the unit free from moisture, water, and dust. • Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern. • Protéger l'appareil contre l'humidité, l'eau et la poussière. • Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere. • Mantenga el equipo libre de humedad, agua y polvo. • Laat geen vochtigheid, water of stof in het apparaat binnendringen. • Utsätt inte apparaten för fukt, vatten och damm. 	 <ul style="list-style-type: none"> • Do not let foreign objects into the unit. • Lassen Sie keine fremden Gegenstände in das Gerät kommen. • Ne pas laisser des objets étrangers dans l'appareil. • Non inserite corpi estranei all'interno dell'unità. • No deje objetos extraños dentro del equipo. • Laat geen vreemde voorwerpen in dit apparaat vallen. • Se till att främmande föremål inte tränger in i apparaten. 	<p>CAUTION:</p> <ul style="list-style-type: none"> • The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc. • No naked flame sources, such as lighted candles, should be placed on the unit. • Observe and follow local regulations regarding battery disposal. • Do not expose the unit to dripping or splashing fluids. • Do not place objects filled with liquids, such as vases, on the unit. <p>ACHTUNG:</p> <ul style="list-style-type: none"> • Die Belüftung sollte auf keinen Fall durch das Abdecken der Belüftungsöffnungen durch Gegenstände wie beispielsweise Zeitungen, Tischtücher, Vorhänge o. Ä. behindert werden. • Auf dem Gerät sollten keinerlei direkte Feuerquellen wie beispielsweise angezündete Kerzen aufgestellt werden. • Bitte beachten Sie bei der Entsorgung der Batterien die örtlich geltenden Umweltbestimmungen. • Das Gerät sollte keiner tropfenden oder spritzenden Flüssigkeit ausgesetzt werden. • Auf dem Gerät sollten keine mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden.
 <ul style="list-style-type: none"> • Handle the power cord carefully. Hold the plug when unplugging the cord. • Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. • Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. • Maneggiare il cavo di alimentazione con attenzione. Tenete ferma la spina quando scollegate il cavo dalla presa. • Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. • Hanteer het netsnoer voorzichtig. Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld. • Hantera nätkablen varsamt. Håll i kabeln när den kopplas från el-uttaget. 	 <ul style="list-style-type: none"> • Unplug the power cord when not using the unit for long periods of time. • Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker. • Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. • Scollegate il cavo di alimentazione quando prevedete di non utilizzare l'unità per un lungo periodo di tempo. • Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. • Neem altijd het netsnoer uit het stopkontakt wanneer het apparaat gedurende een lange periode niet wordt gebruikt. • Koppla loss nätkablen om apparaten inte kommer att användas i lång tid. 	 <ul style="list-style-type: none"> • Do not let insecticides, benzene, and thinner come in contact with the unit. • Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen. • Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. • Assicuratevi che l'unità non entri in contatto con insetticidi, benzolo o solventi. • No permita el contacto de insecticidas, gasolina y diluyentes con el equipo. • Voorkom dat insecticiden, benzeen of verfverdunder met dit toestel in contact komen. • Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje. 	<p>ATTENTION:</p> <ul style="list-style-type: none"> • La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des objets tels que journaux, rideaux, tissus, etc. • Aucune flamme nue, par exemple une bougie, ne doit être placée sur l'appareil. • Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées. • L'appareil ne doit pas être exposé à l'eau ou à l'humidité. • Ne pas poser d'objet contenant du liquide, par exemple un vase, sur l'appareil. <p>ATTENZIONE:</p> <ul style="list-style-type: none"> • Le aperture di ventilazione non devono essere ostruite coprendole con oggetti, quali giornali, tovaglie, tende e così via. • Non posizionate sull'unità fiamme libere, come ad esempio candele accese. • Prestate attenzione agli aspetti legati alla tutela dell'ambiente nello smaltimento delle batterie. • L'apparecchiatura non deve essere esposta a gocciolii o spruzzi. • Non posizionate sull'unità alcun oggetto contenente liquidi, come ad esempio i vasi.
	 <p>* (For apparatuses with ventilation holes)</p> <ul style="list-style-type: none"> • Do not obstruct the ventilation holes. • Decken Sie den Lüftungsbereich nicht ab. • Ne pas obstruer les trous d'aération. • Non coprite i fori di ventilazione. • No obstruya los orificios de ventilación. • De ventilatieopeningen mogen niet worden geblokkeerd. • Täpp inte till ventilationsöppningarna. 	 <ul style="list-style-type: none"> • Never disassemble or modify the unit in any way. • Versuchen Sie niemals das Gerät auseinander zu nehmen oder zu verändern. • Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. • Non smontate né modificate l'unità in alcun modo. • Nunca desarme o modifique el equipo de ninguna manera. • Dit toestel mag niet gedemonteerd of aangepast worden. • Ta inte isär apparaten och försök inte bygga om den. 	<p>PRECAUCIÓN:</p> <ul style="list-style-type: none"> • La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, manteles, cortinas, etc. • No debe colocarse sobre el aparato objetos inflamables sin protección, como velas encendidas. • A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente. • No exponer el aparato al goteo o salpicaduras cuando se utilice. • No colocar sobre el aparato objetos llenos de líquido, como jarras. <p>WAARSCHUWING:</p> <ul style="list-style-type: none"> • De ventilatie mag niet worden belemmerd door de ventilatieopeningen af te decken met bijvoorbeeld kranten, een tafelkleed, gordijnen, enz. • Plaats geen open vlammen, bijvoorbeeld een brandende kaars, op het apparaat. • Houd u steeds aan de milieuvorschriften wanneer u gebruikte batterijen wegdoet. • Stel het apparaat niet bloot aan druppels of spatten. • Plaats geen voorwerpen gevuld met water, bijvoorbeeld een vaas, op het apparaat. <p>OBSERVERA:</p> <ul style="list-style-type: none"> • Ventilationen bör inte förhindras genom att täcka för ventilationsöppningarna med föremål såsom tidningar, bordsdukar, gardiner osv. • Inga blottade brandkällor, såsom tända ljus, får placeras på apparaten. • Tänk på miljöaspekterna när du bortskaffar batterier. • Apparaten får inte utsättas för vätska. • Placera inte föremål fyllda med vätska, t.ex. vaser, på apparaten.

A NOTE ABOUT RECYCLING:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations.

When discarding the unit, comply with local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.

This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive.



HINWEIS ZUM RECYCLING:

Das Verpackungsmaterial dieses Produktes ist zum Recyceln geeignet und kann wieder verwendet werden. Bitte entsorgen Sie alle Materialien entsprechend der örtlichen Recycling-Vorschriften.

Beachten Sie bei der Entsorgung des Gerätes die örtlichen Vorschriften und Bestimmungen.

Die Batterien dürfen nicht in den Hausmüll geworfen oder verbrannt werden; bitte entsorgen Sie die Batterien gemäß der örtlichen Vorschriften.

Dieses Produkt und das im Lieferumfang enthaltene Zubehör (mit Ausnahme der Batterien!) entsprechen der WEEE-Direktive.

UNE REMARQUE CONCERNANT LE RECYCLAGE:

Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés. Veuillez disposer des matériaux conformément aux lois sur le recyclage en vigueur.

Lorsque vous mettez cet appareil au rebut, respectez les lois ou réglementations en vigueur.

Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux lois en vigueur sur la mise au rebut des piles.

Ce produit et les accessoires inclus, à l'exception des piles, sont des produits conformes à la directive DEEE.

NOTA RELATIVA AL RICICLAGGIO:

I materiali di imballaggio di questo prodotto sono riutilizzabili e riciclabili. Smaltire i materiali conformemente alle normative locali sul riciclaggio.

Per lo smaltimento dell'unità, osservare le normative o le leggi locali in vigore.

Non gettare le batterie, né incenerirle, ma smaltirle conformemente alla normativa locale sui rifiuti chimici.

Questo prodotto e gli accessori inclusi nell'imballaggio sono applicabili alla direttiva RAEE, ad eccezione delle batterie.

ACERCA DEL RECICLAJE:

Los materiales de embalaje de este producto son reciclables y se pueden volver a utilizar. Disponga de estos materiales siguiendo los reglamentos de reciclaje de su localidad.

Cuando se deshaga de la unidad, cumpla con las reglas o reglamentos locales.

Las pilas nunca deberán tirarse ni incinerarse. Deberá disponer de ellas siguiendo los reglamentos de su localidad relacionados con los desperdicios químicos.

Este producto junto con los accesorios empaquetados es el producto aplicable a la directiva RAEE excepto pilas.

EEN AANTEKENING MET BETREKKING TOT DE RECYCLING:

Het inpakmateriaal van dit product is recycleerbaar en kan opnieuw gebruikt worden. Er wordt verzocht om zich van elk afvalmateriaal te ontdoen volgens de plaatselijke voorschriften.

Volg voor het wegdoen van de speler de voorschriften voor de verwijdering van wit- en bruingoed op.

Batterijen mogen nooit worden weggegooid of verbrand, maar moeten volgens de plaatselijke voorschriften betreffende chemisch afval worden verwijderd.

Op dit product en de meegeleverde accessoires, m.u.v. de batterijen is de richtlijn voor afgedankte elektrische en elektronische apparaten (WEEE) van toepassing.

OBSERVERA ANGÅENDE ÅTERVINNING:

Produktens emballage är återvinningsbart och kan återanvändas. Kassera det enligt lokala återvinningsbestämmelser.

När du kasserar enheten ska du göra det i överensstämmelse med lokala regler och bestämmelser.

Batterier får absolut inte kastas i soporna eller brännas. Kassera dem enligt lokala bestämmelser för kemiskt avfall.

Denna apparat och de tillbehör som levereras med den uppfyller gällande WEEE-direktiv, med undantag av batterierna.

Contents

Getting Started

Accessories	2
Cautions on Handling	2
Cautions on Installation	3
About the Remote Control Unit	3
Inserting the Batteries.....	3
Operating Range of the Remote Control Unit.....	3
Part Names and Functions	4
Front Panel.....	4
Display.....	4
Rear Panel.....	5
Remote Control Unit.....	6

Connections

Preparations	7
Cables Used for Connections.....	7
Speaker Connections	8
Speaker Installation.....	8
Speaker Connections.....	9
Connecting Equipment with HDMI connectors	10
Connecting the Monitor	11
Connecting the Playback Components	11
DVD Player.....	11
CD Player.....	12
iPod®.....	12
TV/CABLE Tuner.....	12
Connecting the Recording Components	13
Video Cassette Recorder.....	13
CD Recorder / MD Recorder / Tape Deck.....	14
Connections to Other Devices	14
Video Camera / Game Console.....	14
Component with Multi-channel Output connectors.....	14
Antenna terminals.....	15
Connecting the Power Cord	16
Once Connections are Completed	16

Operations

Menu Map	17
Examples of Front Display	17

Auto Setup

Preparations	18, 19
Auto Setup	19
1 Auto Setup.....	19, 20
2 Error Messages.....	20

System Setup

Operations	21
Example of Display of Default Values	21
Speaker Setup	21
1 ~ 6 Speaker Configuration.....	21, 22
7 Subwoofer Mode Setup.....	22
8 ~ 15 Distance.....	22
16 Crossover Frequency.....	23
17 Test Tone.....	23
Input Setup	24
1 , 2 HDMI In Assign.....	24
3 ~ 6 Digital In Assign.....	24
7 iPod Assign.....	24
8 Audio Delay.....	24
9 EXT. IN Subwoofer Level.....	25
10 Auto Preset Memory.....	25
Option Setup	25
1 ~ 3 Volume Control.....	25
4 Auto Surround Mode.....	26
5 Room EQ Setup.....	26
6 Direct Mode Setup.....	26
7 Remote ID Setup.....	26

Surround Modes

Standard Playback	27
Surround Playback of 2-channel Sources.....	27
Playing Multi-channel Sources (Dolby Digital, DTS, etc.).....	27
DSP Simulation Playback	27
Stereo Playback	28
Direct Playback	28

Parameter

Surround Parameter	28
Tone Control.....	30
Room EQ.....	30
RESTORER.....	30
Night Mode.....	31

Information

1 Status.....	31
2 Audio Input Signal.....	31

Playback

Preparations	32
Turning the Power On.....	32
Selecting the input source.....	32
Setting the Input Mode.....	32
Operations During Playback.....	32, 33
Playing Video and Audio Equipment	33
Basic Operation.....	33
Listening to FM/AM Broadcasts	33
Basic Operation.....	33
Presetting Radio Stations (Preset Memory).....	34
Listening to Preset Stations.....	34
RDS (Radio Data System).....	35
RDS Search.....	35
PTY Search.....	35
TP Search.....	36
RT (Radio Text).....	36
iPod® Playback	37
Basic Operation.....	37
Listening to Music in the Browse mode.....	37
Viewing Still Pictures or Videos on the iPod.....	38

Other Operations and Functions	
Other Operations.....	38
Recording on an External Device (REC OUT mode).....	38, 39
Convenient Functions	39
Channel Level.....	39
Quick Select Function	39
Personal Memory Plus Function	39
Last Function Memory.....	39
Backup Memory.....	39
Resetting the Microprocessor.....	39

Remote Control Unit Operations	
Operating DENON Audio Components.....	40
Presetting	40
Operating Preset components	40 ~ 42
Punch Through Function	43

Other Information	44 ~ 49
-------------------------	---------

Troubleshooting	50, 51
-----------------------	--------

Specifications.....	52
---------------------	----

List of preset codes	End of this manual
----------------------------	--------------------

Getting Started

Thank you for purchasing this DENON product. To ensure proper operation, please read this owner's manual carefully before using the product.
After reading them, be sure to keep them for future reference.

Accessories

Check that the following parts are supplied with the product.

① Owner's manual

② Getting Started

③ Service station list

④ Remote control (RC-1076).....

⑤ R6P/AA batteries

⑥ FM indoor antenna

⑦ AM loop antenna

⑧ Setup microphone (Cord length: Approx. 7.6 m)

1

1

1

1

2

1

1

1

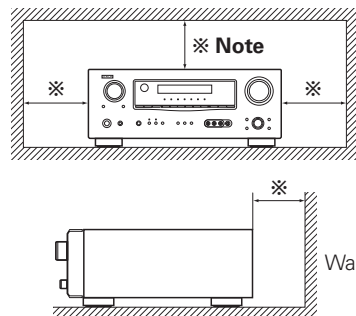
Cautions on Handling

- **Before turning the power switch on**
Check once again that all connections are correct and that there are no problems with the connection cables.
- Power is supplied to some of the circuitry even when the unit is set to the standby mode. When traveling or leaving home for long periods of time, be sure to unplug the power cord from the power outlet.
- **About condensation**
If there is a major difference in temperature between the inside of the unit and the surroundings, condensation (dew) may form on the operating parts inside the unit, causing the unit not to operate properly.
If this happens, let the unit sit for an hour or two with the power turned off and wait until there is little difference in temperature before using the unit.
- **Cautions on using mobile phones**
Using a mobile phone near this unit may result in noise. If so, move the mobile phone away from this unit when it is in use.
- **Moving the unit**
Turn off the power and unplug the power cord from the power outlet.
Next, disconnect the connection cables to other system units before moving the unit.
- Note that the illustrations in these instructions may differ from the actual unit for explanation purposes.

Cautions on Installation

Note:

For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.



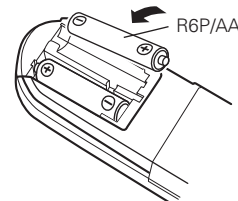
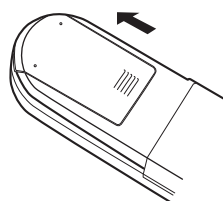
About the Remote Control Unit

In addition to the AVR-1508, the included remote control unit (RC-1076) can also be used to operate the equipment listed below.

- ① DENON system components
- ② Non-DENON system components
 - By setting the preset memory (page 40 ~ 42)

Inserting the Batteries

- ① Lift the clasp and remove the rear lid.
- ② Load the two batteries properly as indicated by the marks in the battery compartment.



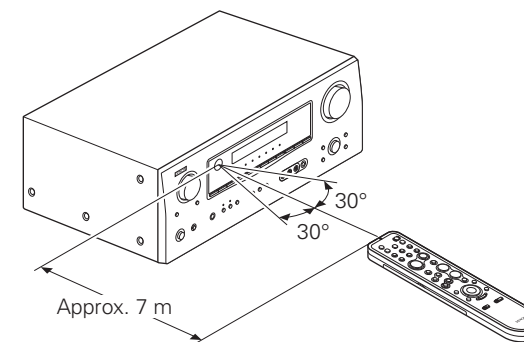
- ③ Put the rear cover back on.

NOTE

- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit.
- The supplied batteries are only for verifying operation.
- When inserting the batteries, be sure to do so in the proper direction, following the “+” and “-” marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
 - Do not use a new battery together with an old one.
 - Do not use two different types of batteries.
 - Do not attempt to charge dry batteries.
 - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- When replacing the batteries, have the new batteries ready and insert them as quickly as possible.

Operating Range of the Remote Control Unit

Point the remote control unit at the remote sensor when operating it.



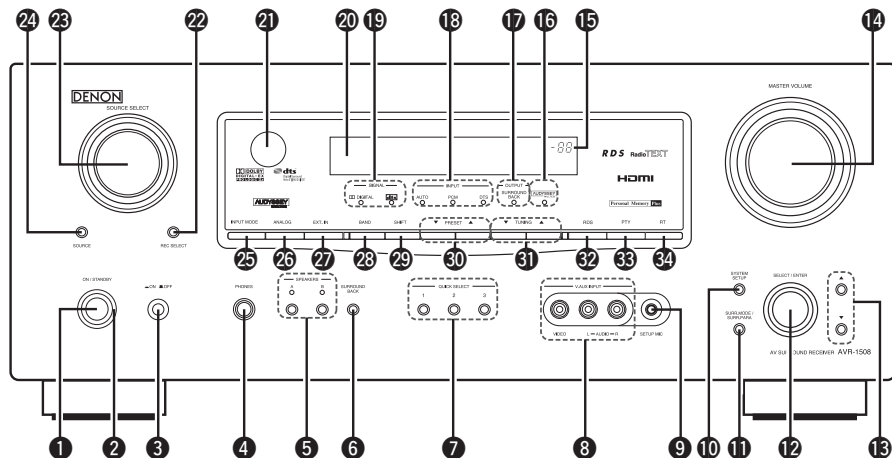
NOTE

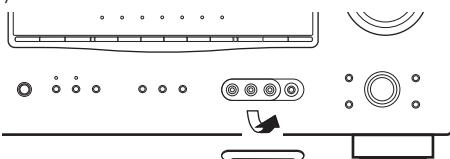


The set may function improperly or the remote control unit may not operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared light.

Part Names and Functions

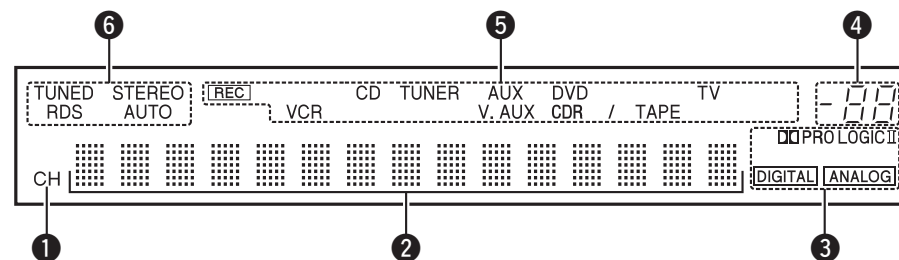
For buttons not explained here, see the page indicated in parentheses ().

Front Panel



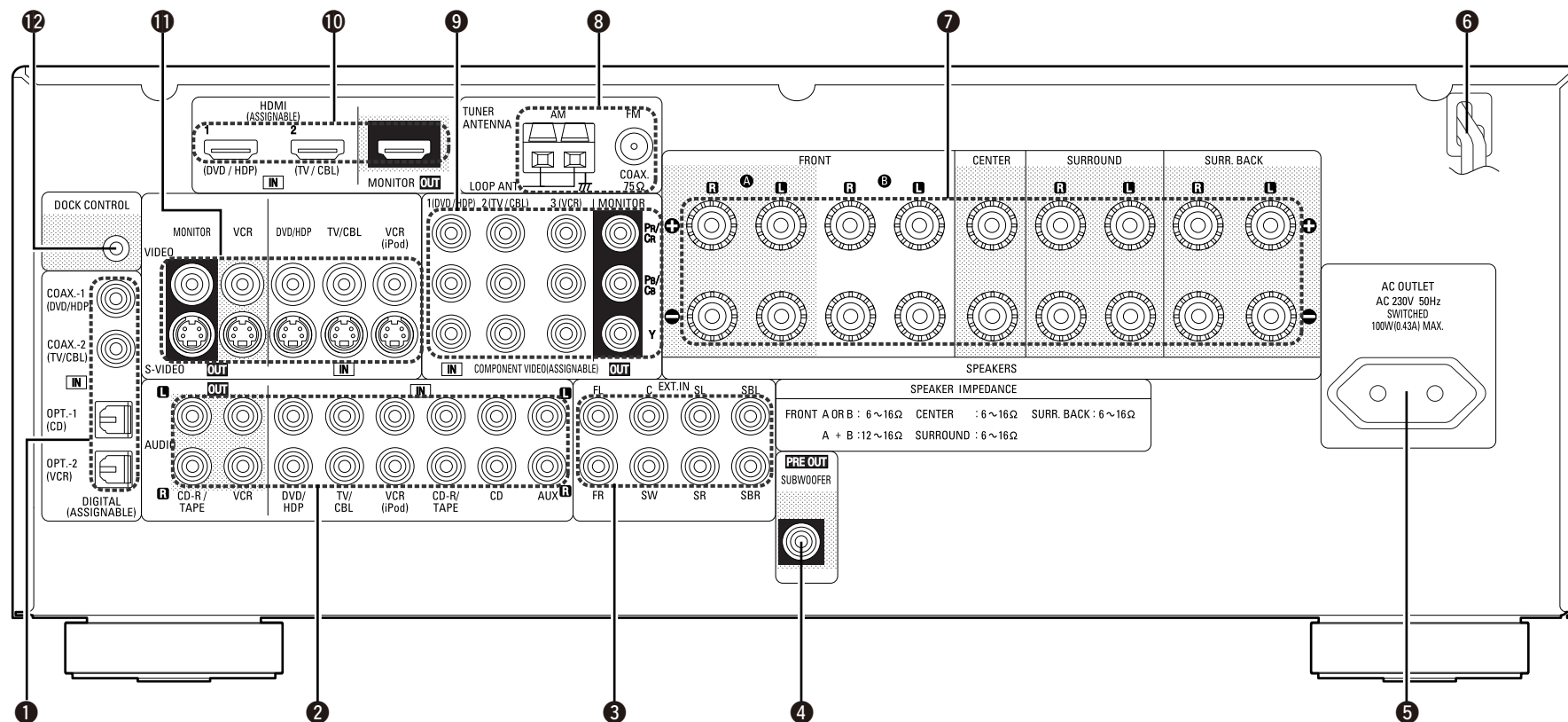
- 1 Power operation button (ON/STANDBY) (32)
- 2 Power indicator (32)
- 3 Power switch (ON OFF) (32)
- 4 Headphones jack (PHONES) (33)
- 5 SPEAKER buttons (33, 39)
- 6 SURROUND BACK button (27, 29)
- 7 QUICK SELECT buttons (39)
- 8 V. AUX INPUT connectors
Remove the cap covering the terminals when you want to use them.

- 9 SETUP MIC jack (18)
- 10 SYSTEM SETUP button (21)
- 11 SURR. MODE/SURR. PARA button (28)
- 12 SELECT/ENTER knob (21, 27)

 - The **SELECT/ENTER** knob on the main unit operates in the same way as the **CURSOR** ◀ and ▶ buttons on the remote control unit.
- 13 Cursor buttons (Δ ▽) (21)
- 14 MASTER VOLUME control knob (32)
- 15 Master volume indicator
- 16 AUDYSSEY indicator (30)
- 17 SURROUND BACK indicator (27)
- 18 Input mode indicators (INPUT) (32)
- 19 SIGNAL indicators
- 20 Display
- 21 Remote control sensor (3)
- 22 REC SELECT button (38, 39)
- 23 SOURCE SELECT knob (32)
- 24 SOURCE button (32)
- 25 INPUT MODE button (32)
- 26 ANALOG button (32)
- 27 EXT. IN button (32)
- 28 BAND button (33)
- 29 SHIFT button (34)
- 30 PRESET CHANNEL buttons (34)
- 31 TUNING buttons (33)
- 32 RDS button (35)
- 33 PTY button (35)
- 34 RT button (35, 36)

Display



- 1 Signal channel indicator
Lights when the preset channel is displayed at 2.
- 2 Information display
- 3 Input signal indicators
- 4 Master volume indicator
This displays the volume level.
The Setup item number is displayed in System Setup.
- 5 REC SELECT indicators
Lights while selecting the REC SELECT mode.
(Off when the "SOURCE" is selected.)
- 6 Tuner reception mode indicators
These light according to the reception conditions when the input source is set to "TUNER".
 - **AUTO**
This lights when in the auto tuning mode.
 - **RDS**
This lights when receiving RDS broadcasts.
 - **STEREO**
In the FM mode, this lights when receiving analog stereo broadcasts.
 - **TUNED**
This lights when the broadcast is properly tuned in.

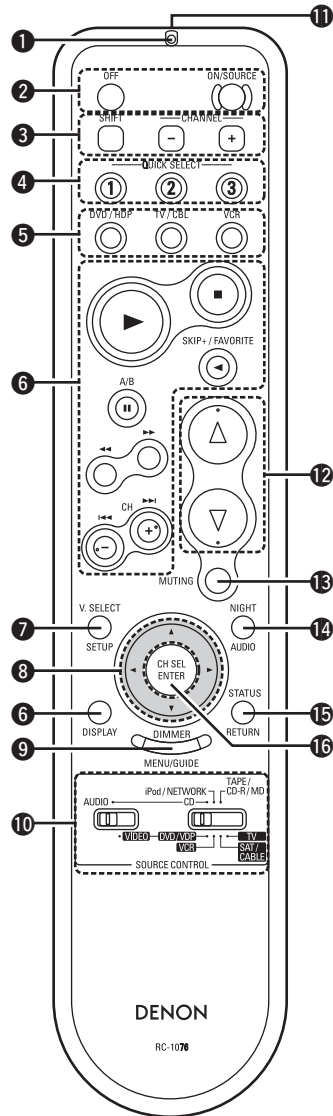
Rear Panel



- ① Digital audio connectors (OPTICAL / COAXIAL) (10 ~ 12)
- ② Analog audio connectors (AUDIO) (10)
- ③ EXT. IN connectors (14)
- ④ PRE OUT connector (9)
- ⑤ AC OUTLET (16)
- ⑥ Power cord (16)
- ⑦ Speaker terminals (SPEAKERS) (9)
- ⑧ FM/AM antenna terminals (TUNER ANTENNA) (15)
- ⑨ COMPONENT VIDEO connectors (11)
- ⑩ HDMI connectors (10)
- ⑪ VIDEO / S-VIDEO connectors (11)
- ⑫ DOCK CONTROL jack (12)

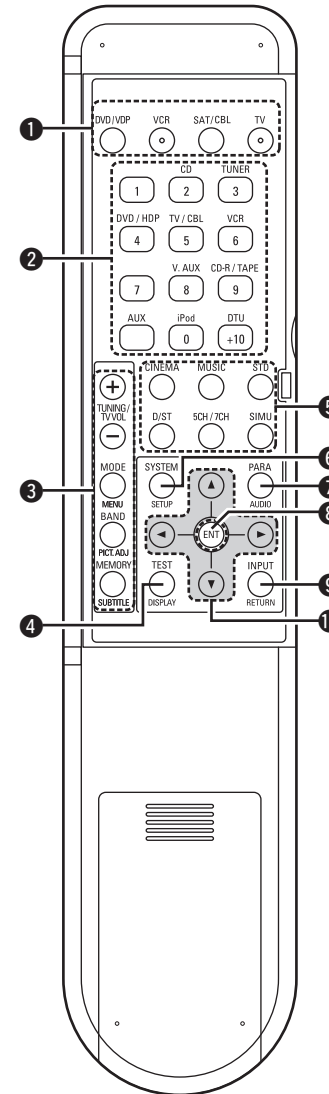
Remote Control Unit

[Front]



- 1 Indicator (40)
- 2 Power buttons (32)
- 3 Tuner system buttons (34, 37)
- 4 QUICK SELECT buttons (39)
- 5 Source select buttons (32)
- 6 System buttons (37, 41)
- 7 Video select button (V. SELECT) (33)
- 8 Cursor buttons (▲▼◀▶) (21)
- 9 DIMMER button (33)
- 10 Mode selector switches (33)
- 11 Remote control signal transmitter
- 12 MASTER VOLUME control buttons (32)
- 13 MUTING button (33)
- 14 NIGHT button (31)
- 15 STATUS button (31)
- 16 Channel select (CH SEL) /
ENTER button (21, 39)

[Rear]



- 1 Power buttons (40)
- 2 Source select buttons (32)
- 3 Tuner system buttons (33, 34)
- 4 Test tone button (TEST) (23)
- 5 Surround mode buttons (27, 28)
- 6 System Setup button (SYSTEM) (21)
- 7 Surround parameter button (PARA) (28)
- 8 Enter button (ENT) (21)
- 9 Input mode button (INPUT) (32)
- 10 Cursor buttons (▲▼◀▶) (21)

NOTE

If buttons on the front or rear are pressed strongly, the button on the opposite side will be activated too.

Connections

Connections for all compatible audio and video signal formats are described in these operating instructions. Please select the types of connections suited for the equipment you are connecting. With some types of connections, certain settings must be made on the AVR-1508. For details, refer to the instructions for the respective connection items below.












































NOTE

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords together with connection cables. Doing so can result in humming or noise.

Preparations

Cables Used for Connections

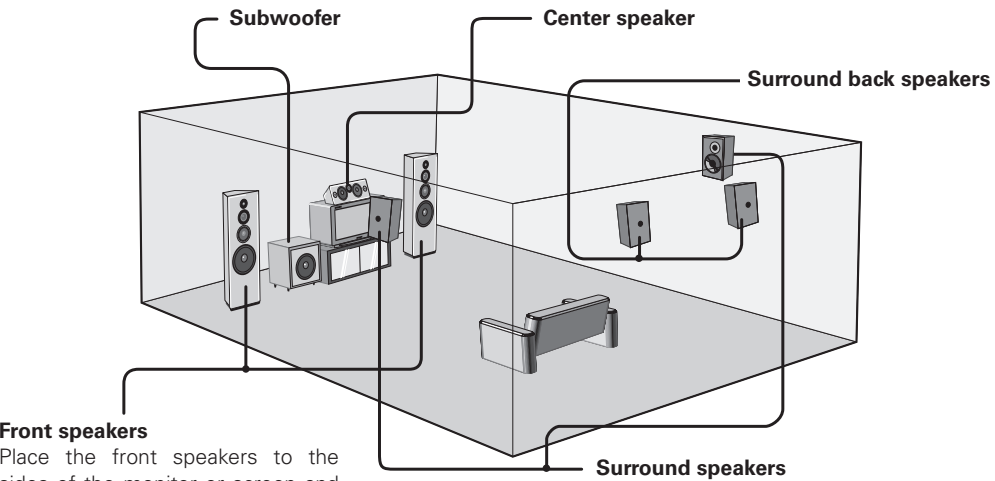
Select the cables according to the equipment being connected.

Audio cables	Video cables
<p>Coaxial digital connections</p> <p>(Orange)   </p> <p>Coaxial digital (75 Ω/ohms pin-plug) cable</p> <p>Optical digital connections</p> <p>  </p> <p>Optical cable</p> <p>Analog connections (stereo)</p> <p>(White)   </p> <p>(Red)   </p> <p>Stereo pin-plug cable</p> <p>Analog connections (monaural, for subwoofer)</p> <p>(Black)   </p> <p>Pin-plug cable</p> <p>Speaker connections</p> <p>  </p> <p>  </p> <p>Speaker cables</p>	<p>Component video connections</p> <p>(Green)   </p> <p>(Blue)   </p> <p>(Red)   </p> <p>Component video cable</p> <p>S-Video connections</p> <p>  </p> <p>S-Video cable</p> <p>Video connections</p> <p>(Yellow)   </p> <p>75 Ω/ohms pin-plug video cable</p> <p>Audio and video cables</p> <p>HDMI connections</p> <p>  </p> <p>19-pin HDMI cable</p> <p>Signal direction</p> <p>Audio signal:</p> <p>Output  Input</p> <p>Input  Output</p> <p>Video signal:</p> <p>Output  Input</p> <p>Input  Output</p>

Speaker Connections

Speaker Installation

The illustration below shows a basic example of installation of the amplifier combined with 8 speakers and a monitor.



Front speakers

Place the front speakers to the sides of the monitor or screen and as flush with the screen surface as possible.

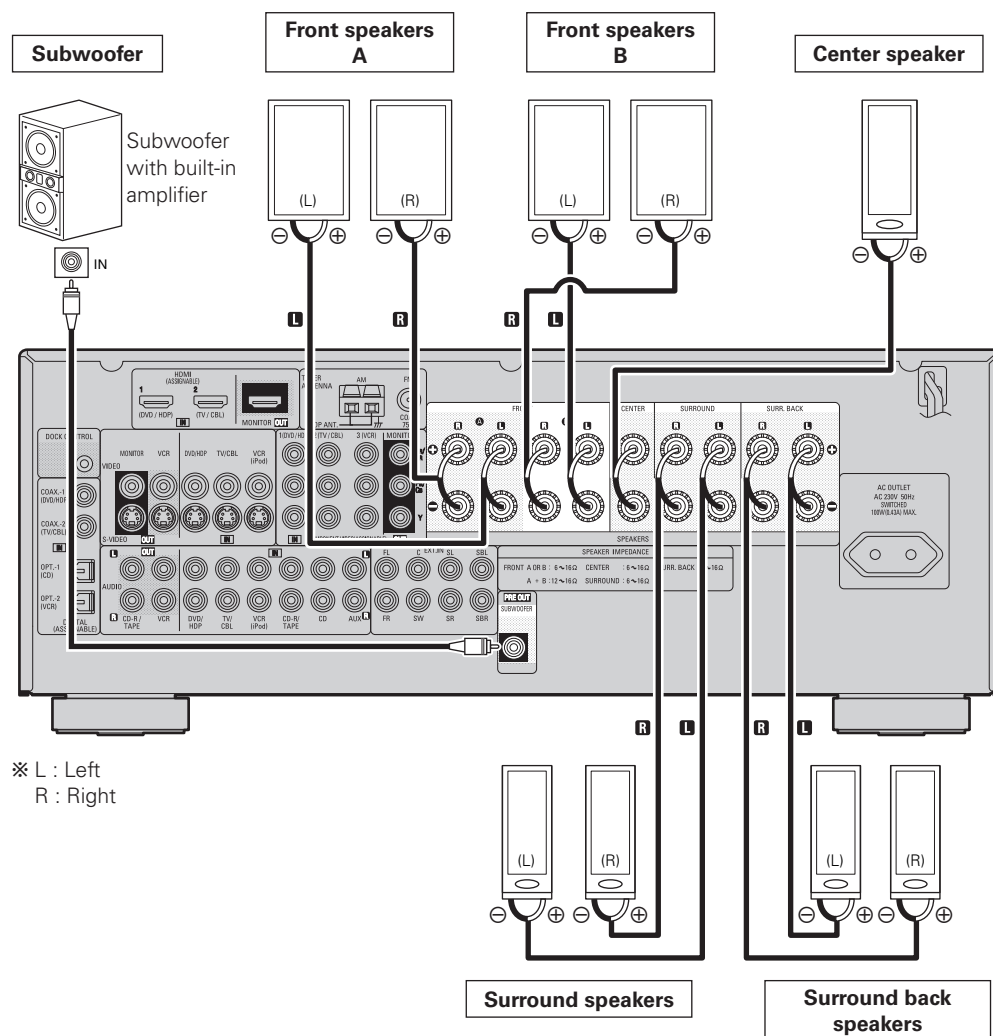


The table below shows a typical speaker configuration for the AVR-1508.

	FRONT		CENTER	SURROUND		SURROUND BACK			SUBWOOFER
	L	R		L	R	L	R	1 only	
7.1-channels (FRONT A+B)	○	○	○	○	○	○	○	–	○
7.1-channels	○	○	○	○	○	○	○	–	○
6.1-channels	○	○	○	○	○	–	–	○	○
5.1-channels	○	○	○	○	○	–	–	–	○
3.1-channels	○	○	○	–	–	–	–	–	○
2.1-channels	○	○	–	–	–	–	–	–	○
2-channels	○	○	–	–	–	–	–	–	–

Speaker Connections

Example: 7.1-channels (FRONT A+B)



When using just one surround back speaker, connect it to the left channel (SBL).

Connecting the Speaker Cables

Carefully check the left (L) and right (R) channels and + (red) and - (black) polarities on the speakers being connected to the AVR-1508, and be sure to interconnect the channels and polarities correctly.

1 Peel off about 10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.



2 Turn the speaker terminal counterclockwise to loosen it.



3 Insert the speaker cable's core wire to the hilt into the speaker terminal.



4 Turn the speaker terminal clockwise to tighten it.



NOTE

- Use speakers with an impedance of 6 to 16 Ω /ohms. When using front A and B speakers simultaneously, use speakers with an impedance of 12 to 16 Ω /ohms.
- Connect the speaker cables in such a way that they do not stick out of the speaker terminals. The protection circuit may be activated if the core wires touch the rear panel or if the + and - sides touch each other (⚠ "Protection circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.

Protection circuit

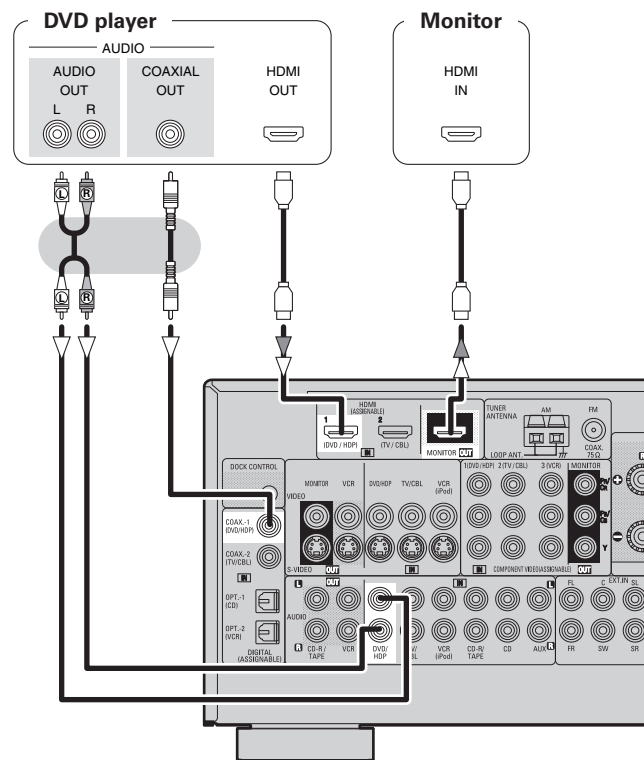
If speakers with an impedance lower than specified (for example 4 Ω /ohms speakers) are used for an extended period of time with the volume turned up high, the temperature may rise, activating the protection circuit.

When the protection circuit is activated, the speaker output is shut off and the power indicator flashes red. If this happens, unplug the power cord, then check the speaker cable and input cable connections. If the set is extremely hot, wait for it to cool off and improve ventilation around it. Once this is done, plug the power cord back in and turn the set's power back on.

If the protection circuit is activated again even though there are no problems in the ventilation around the set nor in the connections, the set may be damaged. Turn the power off, then contact a DENON service center.

Connecting Equipment with HDMI connectors

With HDMI connections, the video and audio signals can be transferred with a single cable.



- ※ The AVR-1508 is equipped for HDMI version 1.3a. This version is compatible with other versions, allowing connection to all components equipped with an HDMI connector.
- ※ The AVR-1508 is compatible with 30- and 36-bit Deep Color.
- ※ The AVR-1508 can be connected to a device equipped with an HDMI output terminal using an HDMI cable.
- ※ The AVR-1508 is compatible with HDMI Ver. 1.3a Deep Color and xvYCC.

NOTE

- The audio signal input to the HDMI input connector cannot be played on the AVR-1508. Input the audio signal to the digital audio input connector or analog audio input connector.
- The AVR-1508 cannot be controlled from another device via the HDMI cable.
- Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the DVD player's resolution to a resolution with which the monitor is compatible.
- Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector. Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product).
- If the monitor or DVD player does not support deep color, deep color signal transfer is not possible.
- If the monitor or DVD player does not support xvYCC, xvYCC signal transfer is not possible.



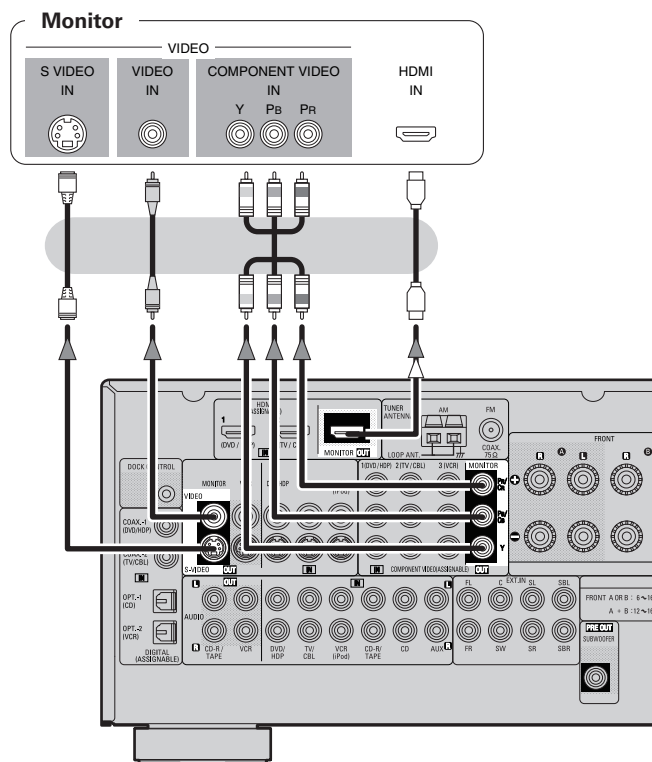
- The audio and video signals input to the AVR-1508's HDMI input connector are output unchanged from the HDMI output connector. Because of this, the sound is output from the monitor connected using the HDMI connectors, but in order to take full advantage of the AVR-1508's playback sound, turn the TV's volume down.
- If the connected monitor or DVD player only has a DVI-D connector, use an HDMI/DVI converter cable. When using a DVI cable, no audio signals are transmitted.
- Use a Deep Color compatible cable for connection to Deep Color compatible devices.

When connecting with an HDMI/DVI converter cable (adapter)

- HDMI video signals are theoretically compatible with the DVI format. When connecting to a monitor, etc., equipped with a DVI-D connector, connection is possible using an HDMI/DVI converter cable, but depending on the combination of components in some cases the video signals will not be output.
- When connecting using an HDMI/DVI converter adapter, the video signals may not be output properly due to poor connections with the connected cable, etc.

Connecting the Monitor

With HDMI connections, the video and audio signals can be transferred with a single cable.



NOTE

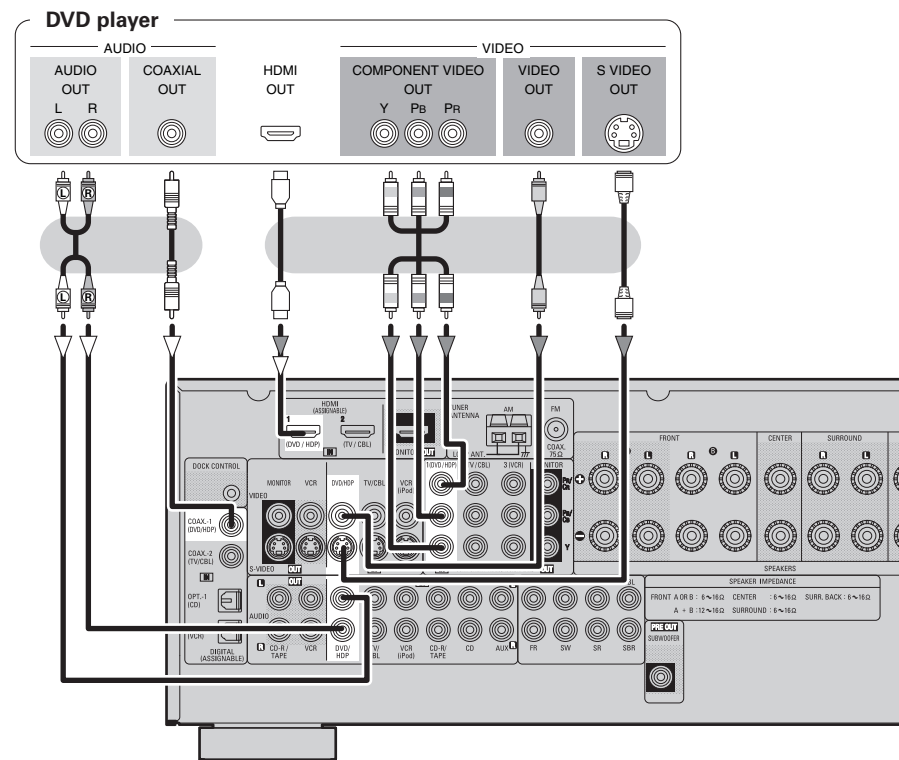
- The component video connectors may be indicated differently on your monitor. For details, see the monitor's operating instructions.
 - To play the sound by AVR-1508, make analog or digital audio output connections to AVR-1508's audio input connectors.
 - The audio signals output from the HDMI connectors are only the HDMI input signals.
 - AVR-1508's S-Video connectors (input and output) and video connectors (input and output) have independent circuit structures, so that video signals input from the S-Video connectors are only output from the S-Video connector outputs and video signals input from the pin connectors are only output from the pin connector outputs.
- When connecting this unit with equipment that is equipped with S-Video connectors, keep the above point in mind and make connections according to the equipment's instruction manuals.
- The signals input to the color difference (component) video connectors are not output from the VIDEO output connector (yellow) or the S-Video output connector.

Connecting the Playback Components

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

DVD Player

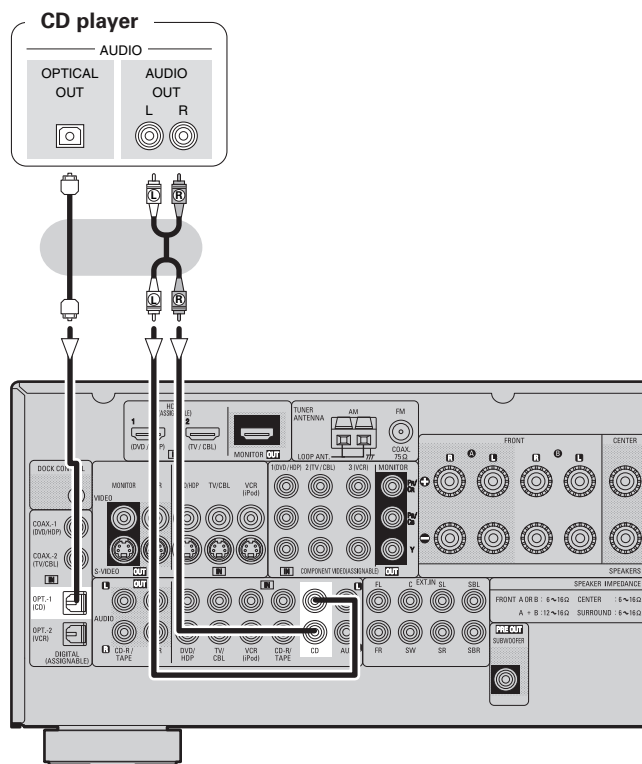
- Connect the cables to be used.
- With HDMI connections, the video and audio signals can be transferred with a single cable.



- Connect an HDP (High-Definition Player) in the same way.
 - When using an optical cable for the digital audio connection, make the settings at "System Setup" – "Input Setup" – "Digital In Assign" (page 24).
 - AVR-1508's S-Video connectors (input and output) and video connectors (input and output) have independent circuit structures, so that video signals input from the S-Video connectors are only output from the S-Video connector outputs and video signals input from the pin connectors are only output from the pin connector outputs.
- When connecting this unit with equipment that is equipped with S-Video connectors, keep the above point in mind and make connections according to the equipment's instruction manuals.
- The signals input to the color difference (component) video connectors are not output from the VIDEO output connector (yellow) or the S-Video output connector.

CD Player

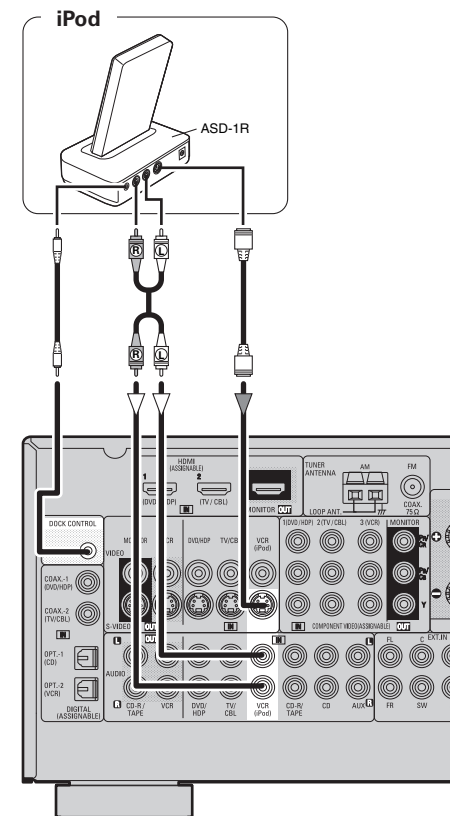
Connect the cables to be used.



When using an coaxial cable for the digital audio connection, make the settings at "System Setup" – "Input Setup" – "Digital In Assign" (page 24).

iPod®

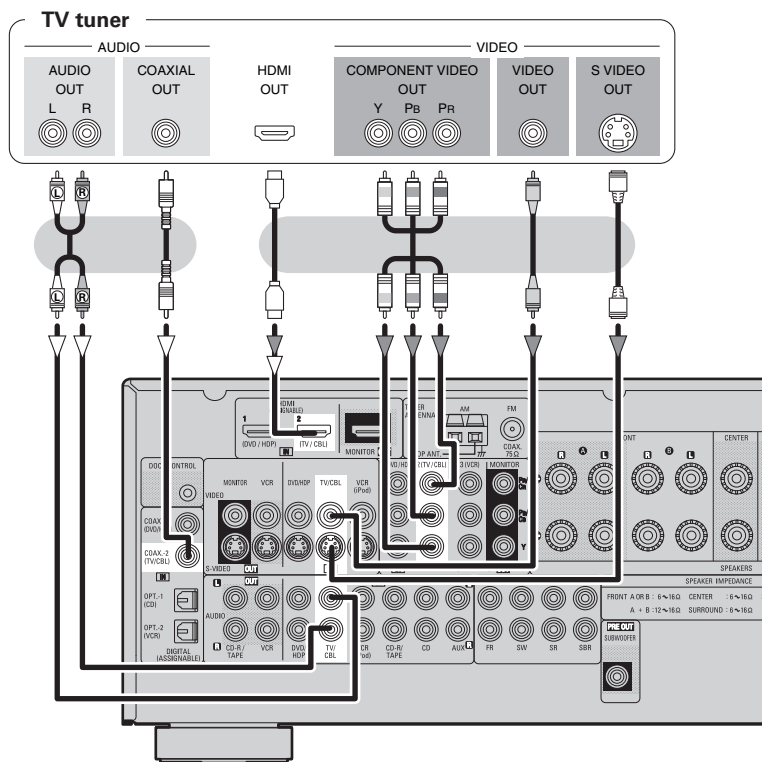
Use a DENON Control Dock for iPod (ASD-1R, sold separately) to connect the iPod to the AVR-1508. For instructions on the Control Dock for iPod settings, refer to the Control Dock for iPod's operating instructions.



- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
- To assign the iPod to a connector other than VCR (iPod), make the settings at "System Setup" – "Input Setup" – "iPod Assign" (page 24).

TV/CABLE Tuner

Connect the cables to be used.



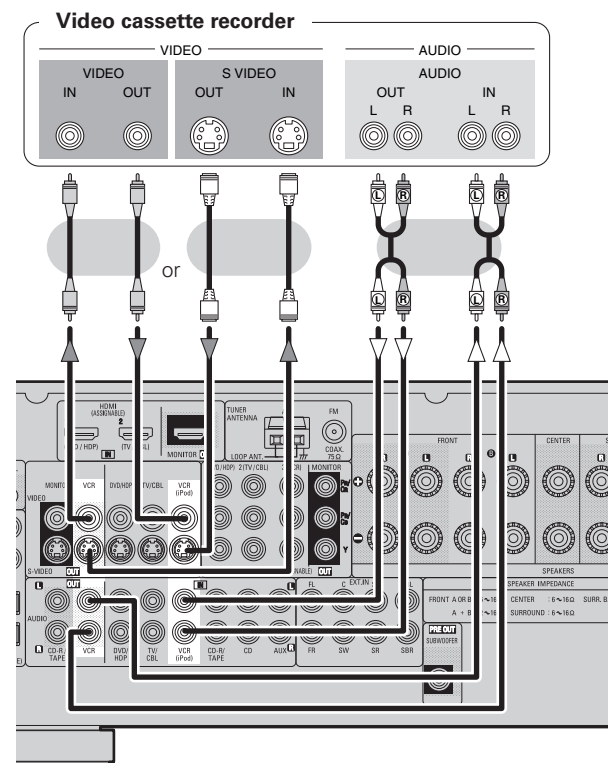
- When using an optical cable for the digital audio connection, make the settings at “System Setup” – “Input Setup” – “Digital In Assign” (page 24).
- AVR-1508's S-Video connectors (input and output) and video connectors (input and output) have independent circuit structures, so that video signals input from the S-Video connectors are only output from the S-Video connector outputs and video signals input from the pin connectors are only output from the pin connector outputs.
When connecting this unit with equipment that is equipped with S-Video connectors, keep the above point in mind and make connections according to the equipment's instruction manuals.
- The signals input to the color difference (component) video connectors are not output from the VIDEO output connector (yellow) or the S-Video output connector.

Connecting the Recording Components

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

Video Cassette Recorder

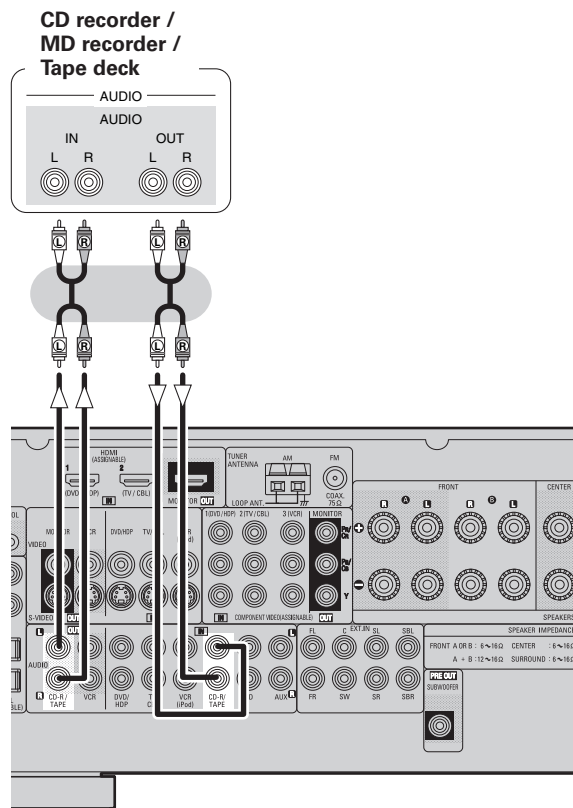
Connect the cables to be used.



- When recording via the AVR-1508, the playback device's cable must be of the same type as the cable used to connect the AVR-1508's VCR OUT connector.
Example: TV IN → S-Video cable : VCR OUT → S-Video cable
TV IN → Video cable : VCR OUT → Video cable
- AVR-1508's S-Video connectors (input and output) and video connectors (input and output) have independent circuit structures, so that video signals input from the S-Video connectors are only output from the S-Video connector outputs and video signals input from the pin connectors are only output from the pin connector outputs.
When connecting this unit with equipment that is equipped with S-Video connectors, keep the above point in mind and make connections according to the equipment's instruction manuals.
- The signals input to the color difference (component) video connectors are not output from the VIDEO output connector (yellow) or the S-Video output connector.

CD Recorder / MD Recorder / Tape Deck

Connect the cables to be used.

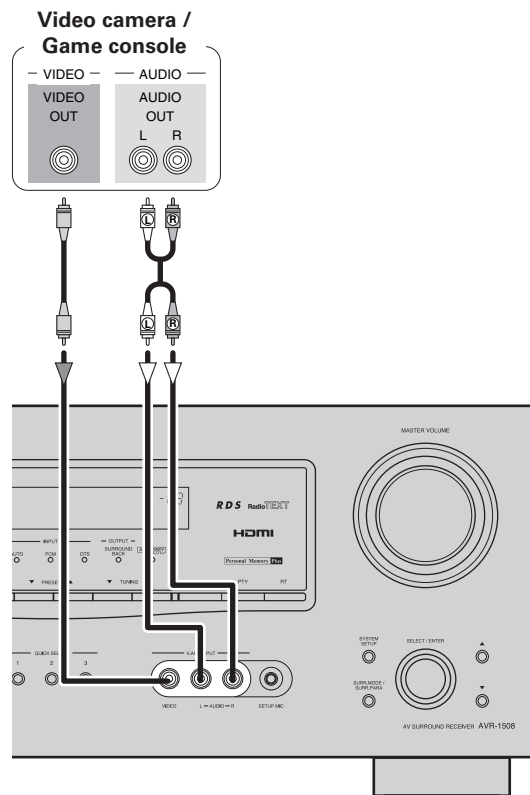


Connections to Other Devices

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

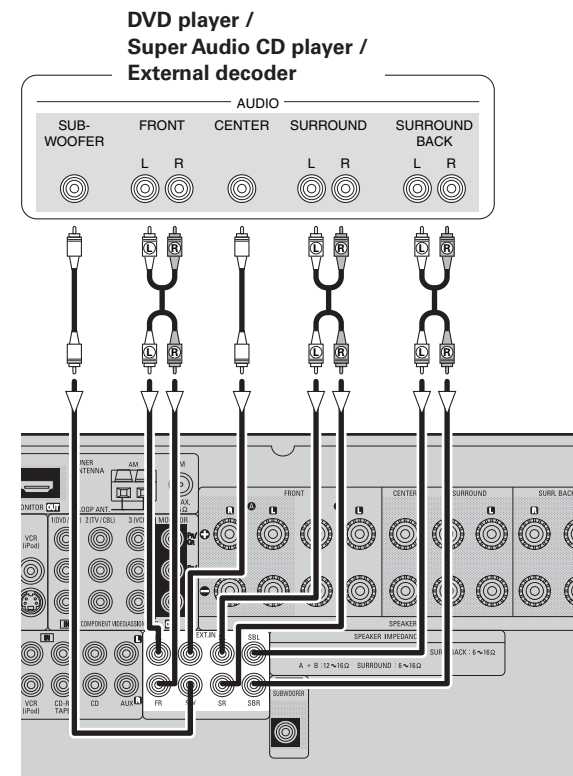
Video Camera / Game Console

Connect the cables to be used.



Component with Multi-channel Output connectors

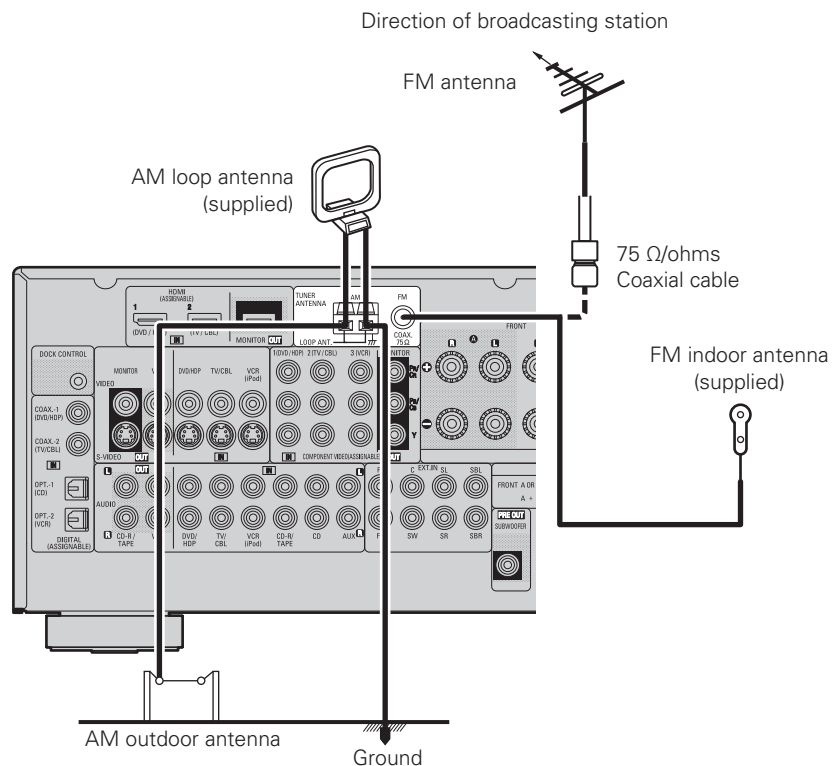
Connect the cables to be used.



- To play the analog input signals input to the EXT. IN connectors, press the **EXT. IN** button on the main unit or the **INPUT** button on the remote control unit and select "EXT. IN" (page 32).
- The video signal can be connected in the same way as a DVD player (page 11).
- To play copyright-protected discs, connect the AVR-1508's EXT. IN connector with the DVD player's analog multi-channel output connector.

Antenna terminals

An FM antenna cable plug can be connected directly.



AM loop antenna assembly

- ① Remove the vinyl tie and take out the connection line.
- ② Connect to the AM antenna terminals.
- ③ Bend in the reverse direction.
- ④ a. With the antenna on top of any stable surface.
Mount
- b. With the antenna attached to a wall.
Installation hole Mount on wall, etc.

Connection of AM antennas

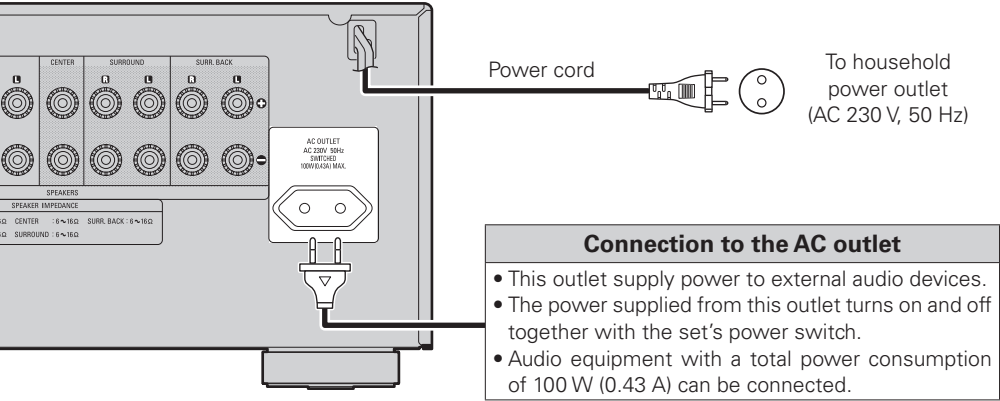
1. Push the lever.
2. Insert the conductor.
3. Return the lever.

NOTE

- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.

Connecting the Power Cord

Wait until all connections have been completed before connecting the power cord.



NOTE

- Insert the AC plugs securely. Incomplete connections could cause noise.
- Only use the AC outlet to plug in audio devices. Do not use them as power supplies for hairdryers or anything other than audio equipment.

Once Connections are Completed

Turning the Power On (page 32)

Operations

Menu Map

Auto Setup (🔧 page 18 ~ 20)

※ When the setup microphone is connected.

❑ Auto Setup

- Step 1: Speaker Detection
- Step 2: Measurement
- Step 3: Calculation
- Step 4: Check
- Step 5: Store

System Setup (🔧 page 21 ~ 26)

❑ Speaker Setup

- (🔧 page 21 ~ 23)
- Speaker Configuration
 - Subwoofer Mode Setup
 - Distance
 - Crossover Frequency
 - Test Tone

❑ Input Setup (🔧 page 24, 25)

- HDMI In Assign
- Digital In Assign
- iPod Assign
- Audio Delay
- EXT. IN Subwoofer Level
- Auto Preset Memory

❑ Option Setup

- (🔧 page 25, 26)
- Volume Control
 - Volume Limit
 - Power On Level
 - Mute Level
 - Auto Surround Mode
 - Room EQ Setup
 - Direct Mode Setup
 - Remote ID Setup

Parameter (🔧 page 28 ~ 31)

❑ Surround Parameter

- | | | |
|----------------|------------------|----------------|
| • MODE | • DELAY TIME | • Tone Control |
| • CINEMA EQ | • EFFECT LEVEL | · Tone Defeat |
| • D.COMP | • ROOM SIZE | · Bass |
| • LFE | • SB CH OUT | · Treble |
| • CENTER IMAGE | • SUBWOOFER ATT. | • Room EQ |
| • PANORAMA | • Subwoofer | • RESTORER |
| • DIMENSION | • Default | • Night Mode |
| • CENTER WIDTH | | |

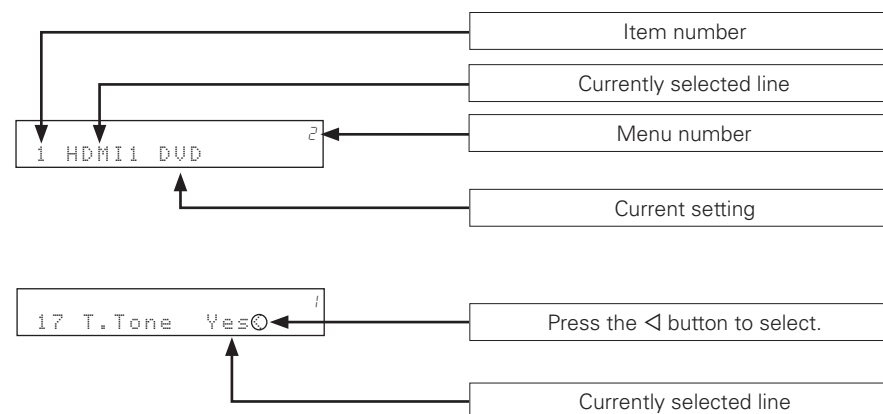
Information (🔧 page 31)

❑ Status

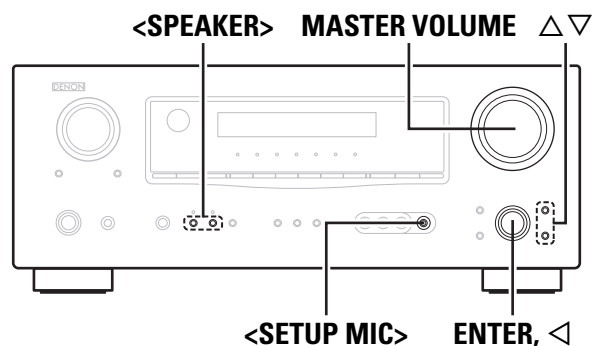
❑ Audio Input Signal

Examples of Front Display

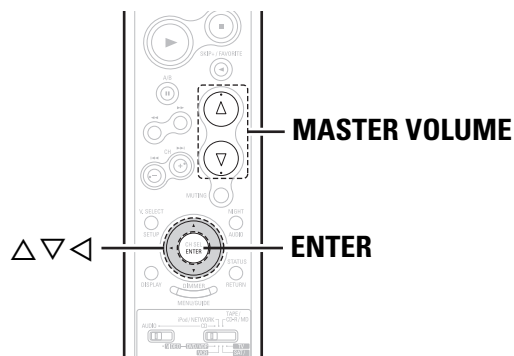
Some typical examples are described below.



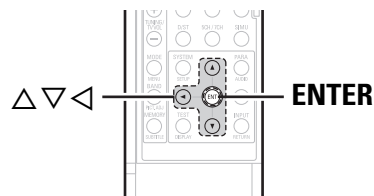
Auto Setup



[Front]

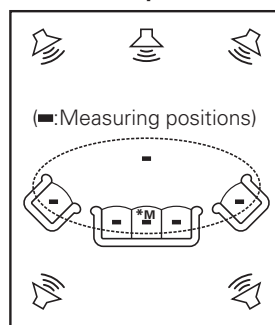


[Rear]

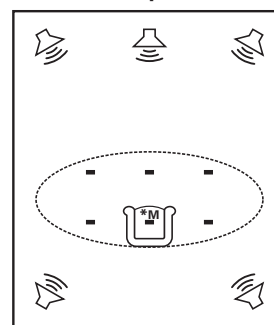


- Audyssey MultEQ® automatically measures the acoustical problems in the listening environment to create the best audio experience for your home theater.
- Audyssey MultEQ® optimizes a large listening area where one or more listeners are seated.
Measurements are performed by placing the calibrated microphone (DM-A405) successively at multiple positions throughout the listening area as shown in **Example ①**. For best results, it is strongly recommended to measure 6 positions so that the measurements have the proper spatial weighting.
Even if the listening environment is small as shown in **Example ②**, measuring at multiple points throughout the listening environment results in more effective correction.

Example ①



Example ②



About the main listening position (*M)

The main listening position refers to the most central position where one would normally sit within the listening environment. MultEQ uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.



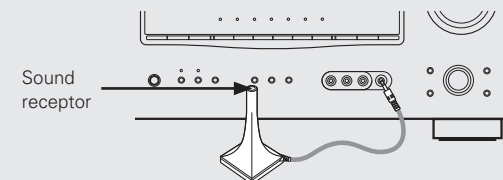
To make manual adjustments to the settings, see pages 21 ~ 23.

Preparations

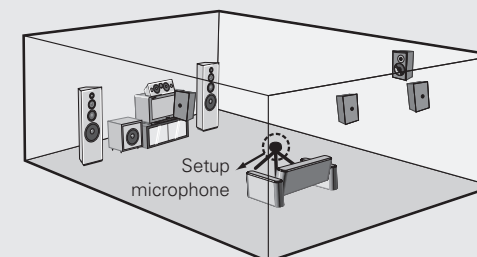
1 Press **<SPEAKER>** to select the front speakers **Front A**, **Front B** or **Front A+B**.

2 Connect the included calibrated setup microphone to **<SETUP MIC>**.

"Auto Set Start" is displayed.



3 Place the microphone at ear height on a tripod or stand with the microphone pointing directly up towards the ceiling.



※ It is not recommended to hold it in your hand. Be sure that the path from microphone to the speakers is not blocked by objects. Avoid placing the microphone close to a seat back or wall as sound reflections may give inaccurate results.

About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit



When using a subwoofer, make the following settings before starting the auto setup procedure:

- Defeat the volume and crossover controls if possible
- If this is not possible then set:
 - Volume: "12 o'clock" position
 - Crossover frequency: "Maximum/Highest Frequency"
 - Low pass filter: "Off"
 - Standby mode: "Off"

NOTE

- Do not disconnect the setup microphone until the auto setup procedure is completed.
- When using headphones, unplug the headphones before starting the auto setup procedure.

Auto Setup

Optimize settings for speakers in use.

1 Auto Setup

The settings found at this stage are applied automatically.

[Auto setup flow]

Step 1: Speaker Detection



Step 2: Measurement



Step 3: Calculation



Step 4: Check



Step 5: Store

Start

Press \triangleleft to start the MultEQ Auto Setup.

The Audyssey MultEQ Auto Setup process automatically calculates the size, level, distance, bass management crossover frequency, and optimal settings for each speaker and subwoofer. Audyssey MultEQ corrects acoustical distortions within the listening area.

Before starting, connect and position all your speakers.

Once started, MultEQ will play a series of test tones through each speaker.



If an error message appears during the measurements, check "Error Messages," take the advised action, then start the measurements again (page 20).

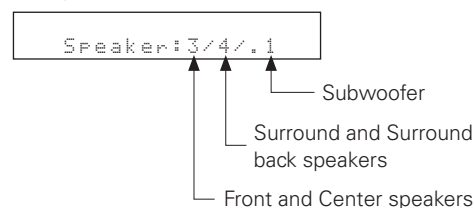
Step 1 : Speaker Detection

The speaker connection and polarity are detected at the first measurement position. The following attributes are also determined at this time: "Speaker Size," "Speaker Distance," "Channel Level," "Crossover Frequency."

Once the measurements are completed, "Sp Detect Check" is displayed.

Press **ENTER** to check the results of the speaker detection.

Example : 7.1-channel systems



- If the results are not as expected or if an error message is displayed, address any error as required, select "Retry" and perform the measurement again.
- If the results of measurement are still not as expected or an error message is displayed, turn off the power switch and check the speaker connections. Then start measurements again from the beginning.

NOTE

- Loud test sounds may be played during Audyssey MultEQ Automatic Speaker Setup. This is part of normal operation. If there is background noise in room, these test signals will increase in volume.
- Do not stand between the speakers and setup microphone or allow obstacles in the path while the measurements are being made. This will cause inaccurate readings.
- Quiet the listening environment before beginning measurements and refrain from talking. Turn off air conditioning units or other devices that emit noise if at all possible as measurements may be affected by these sounds.
- Operating **MASTER VOLUME** during the measurements will cancel the measurements.
- Do not change the speaker connections or subwoofer volume after "Step 1".

Step 2 : Measurement

- ① Press ∇ to select "2nd Start," then press \triangleleft .
 - Measures the 2nd measurement position.
- ② Move the microphone to the 3rd point and press \triangleleft .
 - Measures the 3rd measurement position.
- ③ Perform ② repeatedly.
 - To measure the remaining measurement positions.



After completing a measurement position, move the microphone to the next position.

Measure at 6 positions: the main listening position and 5 other surrounding positions. Although it is allowable to measure less than 6 positions, it is recommended to measure **6** for best results.

Step 3 : Calculation

When “Calculate” is selected at “Step 2,” the measurements taken are analyzed automatically to determine how the speaker system interacts with the room. “Calculate” is displayed when you have completed measurements in 6 positions. To complete Step 2 in 5 or less positions, press ∇ to select “Calculate.”



The time required for this analysis depends on the number of speakers connected. The higher the number of speakers, the longer the time required for analysis.

NOTE

Do not change the speaker connections or subwoofer volume, or speaker locations after making measurements. These types of changes will invalidate the EQ solution provided. If changes are necessary, make the changes and use the Audyssey MultEQ Auto Setup once again for an updated EQ solution.

Step 4 : Check

Once the calculation is completed, a measuring result check (“Parameter Check”) is displayed. Press \triangleleft to check the result. Press $\triangle\nabla$ to select the item, then press \triangleleft .



Values that are different from the actual distance may be set for speakers with built-in filters (subwoofers, etc). This is because filters add electrical delay to the signal that should be compensated.

Step 5 : Store

The auto setup measurement results are stored in the AVR-1508 or cancelled. After checking, press **ENTER** to select “Store,” then press $\triangle\nabla$ to select “Store” or “Cancel.”

Store : Press \triangleleft to store this calibration permanently to memory.

Cancel : Press \triangleleft to cancel this calibration and clear all Auto Setup data measured.

NOTE

Do not turn the power off while the settings are being stored.

2 Error Messages

If the auto setup procedure could not be completed due to speaker installation, the measuring environment, etc. an error message is displayed. Check the relevant items and be sure to take the necessary measures. After addressing any issues, perform the auto setup procedure over again.

Error messages (examples)	Cause	Measures
Mic or SP:NONE	<ul style="list-style-type: none"> The included setup microphone is not connected. Not all speakers could be detected. 	<ul style="list-style-type: none"> Connect the included setup microphone to <SETUP MIC>. Check the speaker connections.
Ambient Noise	<ul style="list-style-type: none"> Too much noise in the room for accurate measurements to be made. Speaker or subwoofer sound is too low for accurate measurements to be made. 	<ul style="list-style-type: none"> Either turn off any device generating noise or move it away. Try again when the surroundings are quieter. Check the speaker installation and the direction in which the speakers are facing. Adjust the subwoofer’s volume.
Caution:Sp None FR	<ul style="list-style-type: none"> Displayed speaker could not be detected. <ul style="list-style-type: none"> The front L and front R speakers were not properly detected. Only one channel of the surround speakers was detected. Sound was output from the R channel when only one surround back speaker was connected. The surround back speaker was detected, but the surrounds were not detected. 	<ul style="list-style-type: none"> Check the connections of the displayed speaker.
Caution:Phase SBL	<ul style="list-style-type: none"> Displayed speaker connected with the polarities reversed. 	<ul style="list-style-type: none"> Check the polarities of the displayed speaker. For some speakers, this error message may be displayed even if the speaker is properly connected. If you are sure that the wiring is correct, select “Skip.”



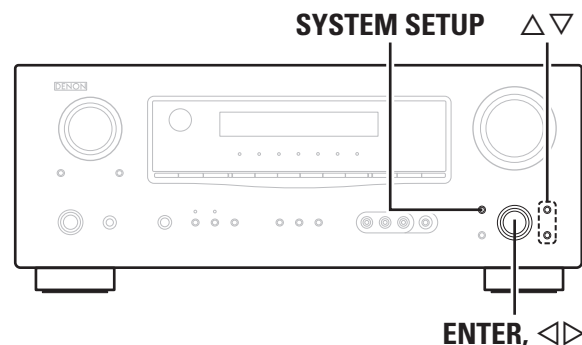
Select “Retry” to make the measurements again.

NOTE

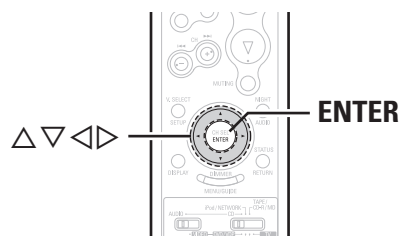
Be sure to turn the power off before checking speaker connections.

System Setup

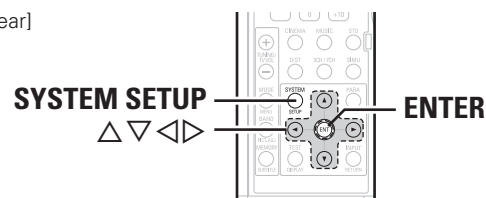
Make detail settings for various parameters.



[Front]



[Rear]



About the button names in these explanations

< > : Buttons on the main unit
[] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

Operations

The same operation is possible on the main unit or remote control unit.

- 1** Press **SYSTEM SETUP**, then press **ENTER**.
"System Setup" is displayed.
- 2** Press < > to select the item you want to set, then press **ENTER**.
- 3** To change the setting:
Press < > to select the item you want to change, then press < > to change the setting.
- 4** Press **ENTER** or < > to confirm the new settings.
- 5** Press **SYSTEM SETUP** to move the next category.

※ To cancel the system setup mode, press **SYSTEM SETUP** again.

- 1** *System Setup
- 2** 1.Sp 2.In 3.Op
Speaker Setup
- 3** 1 Front Large
- 5** 1.Sp 2.In 3.Op

Example of Display of Default Values

In lists of selectable items or adjustable ranges, the item surrounded by a border is the default value.

[Selectable items] **Large** Small

Speaker Setup

Use this procedure to set the speakers manually or if you wish to change the settings made with the auto setup procedure.

- | | |
|--------|-----------------------|
| 1 ~ 6 | Speaker Configuration |
| 7 | Subwoofer Mode Setup |
| 8 ~ 15 | Distance |
| 16 | Crossover Frequency |
| 17 | Test Tone |

1 ~ 6 Speaker Configuration

Select speaker configuration and size.
(bass reproduction capability)

[Display]

```

1.Sp 2.In 3.Op
Speaker Setup
1 Front Large
...
6 Subwoofer Yes
  
```

Front Speaker

Select front speaker size.

[Selectable items] **Large** Small

Center Speaker

Select center speaker use and size.

[Selectable items] **Large** **Small** **None**

Surround Speaker

Select surround speakers use and size.

[Selectable items] **Large** **Small** **None**

Surround Back Speaker

Select surround back speaker use and size.

[Selectable items] (**Large** **Small** **None**)
(**2spkrs** **1spkr**)

Subwoofer

Select subwoofer use.

[Selectable items] **Yes** **No**

- Large** :Select this when using large speakers with ample low frequency reproduction capabilities.
- Small** :Select this when using small speakers without ample low frequency reproduction capabilities.
- None** :Select this when no speaker is connected.
- Yes** :Select this when a subwoofer is connected.
- No** :Select this when no subwoofer is connected.

2spkrs **1spkr** :
Select the number of surround back speakers.

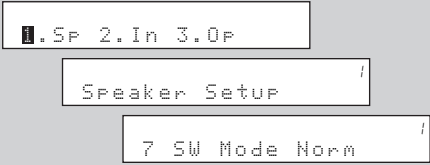


- Select “Large” or “Small” not according to the physical size of the speaker but according to the low frequency reproduction capabilities based on the frequency set at “Crossover Frequency” (page 23).
- When “Front Speaker” is set to “Small,” “Subwoofer” is automatically set to “Yes”.
- If “Subwoofer” is set to “No,” “Front Speaker” is automatically set to “Large”.
- If “Surround Speaker” is set to “None,” “Surround Back Speaker” are automatically set to “None”.
- When using just one surround back speaker, connect it to the left channel (SBL).

7 Subwoofer Mode Setup

Select low range signal to be reproduced by subwoofer.

[Display]



[Selectable items]

- LFE (Normal)** :Play low range and LFE signal of channels set to “Small”.
- LFE+Main** :Play low range and LFE signal of all channels.

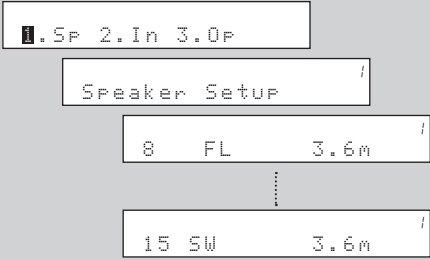


- This can be set when “System Setup” – “Speaker Setup” – “Subwoofer” is set to “Yes”.
- Play music or a movie source and select the mode offering the strongest bass.
- Select “LFE+Main” if you want the bass signals to always be produced from the subwoofer.

8 ~ 15 Distance

Set distance from listening position to speakers.
Before making the settings, measure the distance from the listening position to the different speakers.

[Display]



Distance measurement

Select the speaker you want to set, then set the distance.
Set the value closest to the measured distance.

[Variable range]

0.0m ~ 18.0m : Settable in units of 0.1 meters.

NOTE

Set the distance between the listening position and the various speakers to no more than 6.0 meters.

16 Crossover Frequency

Select crossover frequency from which subwoofer handles low range signal.

[Display]



[Selectable items]

40Hz 60Hz **80Hz** 90Hz 100Hz 110Hz 120Hz 150Hz
200Hz 250Hz :

Only the portion of the bass sound of the various speakers output from the subwoofer that has a frequency below the frequency set here is output.

Set this according to the low frequency reproduction capabilities of the speakers you are using.

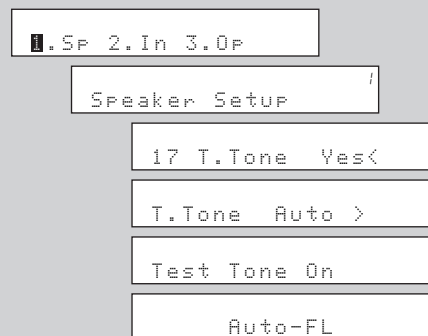


- The "Crossover Frequency" can be set when there are speakers that have been set to "Small" at "System Setup" – "Speaker Setup" or when "Subwoofer" is set to "Yes" (page 22).
- For speakers set to "Small," sound below the crossover frequency is cut from the sound output. The cut bass sound is output from the subwoofer or front speakers.
- Always set the crossover frequency to "80 Hz". When using small speakers, however, we recommend setting the crossover frequency to a higher frequency.

17 Test Tone

Adjust channel levels to obtain equal volume from all speakers.

[Display]



Test Tone

Select test tone playback method.

[Selectable items]

Auto : Automatically switch speaker from which test tone is output.

Manual : Manually switch speaker from which test tone is output.

Test Tone Start

Press the < button to select "Yes", then press the < button to select "Auto" or "Manual".

Then press the ▽ button. Out put the test tone.

Auto : Press the < button to adjust the volume.

Manual : Press the Δ ▽ button to select the speaker, then press the < button to adjust the volume.

When the adjustments are completed, press the **ENTER** button to finish the test tone.

[Variable range] **-12dB** ~ **0dB** ~ **+12dB**



Operating from the remote control unit

Adjusting with the remote control unit using the test tones is only possible in the "Auto" mode and only effective in the STANDARD mode. The adjusted levels for the different modes are automatically stored in the memory.

[Adjusting using test tones]

- ① Press the **TEST** button on the remote control unit. Test tones are output from the various speakers.
- ② Use the < > button to adjust so that the volume is equal for all speakers.
- ③ When the adjustments are completed, press the **TEST** button on the remote control unit again.



- When "System Setup" – "Speaker Setup" – "Surround Back Speaker" setting (page 22) is set to "1spkr", the surround back speaker display is set to "SB".
- Speakers set to "None" in the Speaker Configuration settings are not displayed.
- When "Test Tone" is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see page 39.

Input Setup

Use this procedure to select the input source and make the settings related to playing input sources.

- 1, 2

HDMI In Assign
- 3 ~ 6

Digital In Assign
- 7

iPod Assign
- 8

Audio Delay
- 9

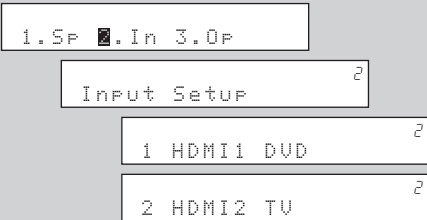
EXT. IN Subwoofer Level
- 10

Auto Preset Memory

1, 2 HDMI In Assign

Select HDMI connector to assign to this source.

[Display]



[Input terminals] **HDMI1** **HDMI2**

[Assignable input sources]

- DVD/HDP
- TV/CBL
- VCR
- V.AUX

Input terminals	HDMI1	HDMI2
Default setting	DVD/HDP	TV/CBL



- With HDMI, the video and audio signals are transferred simultaneously. At this time, set the input mode to "Auto".
- The audio signals input from the analog, digital and EXT. IN connectors are not output to the monitor.

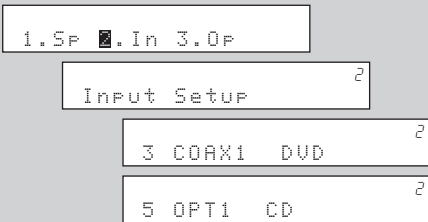
NOTE

This cannot be set for input sources assigned at "iPod Assign."

3 ~ 6 Digital In Assign

Select digital input connector to assign to this source.

[Display]



[Input terminals] **COAXIAL1** **COAXIAL2**
OPTICAL1 **OPTICAL2**

[Assignable input sources]

- CD
- AUX
- CDR
- DVD/HDP
- TV/CBL
- VCR
- V.AUX

Input terminals	COAXIAL1	COAXIAL2	OPTICAL1	OPTICAL2
Default setting	DVD/HDP	TV/CBL	CD	VCR

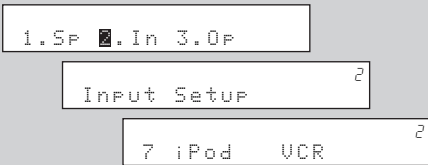
NOTE

This cannot be set for input sources assigned at "iPod Assign."

7 iPod Assign

Assign Control Dock for iPod to this source.

[Display]



[Assignable input sources]

- CD
- AUX
- CDR
- DVD/HDP
- TV/CBL
- VCR
- V.AUX

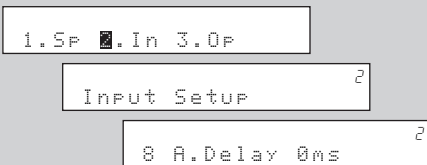


- With the default settings, the Control Dock for iPod can be used connected to the VCR (iPod) connector.
- Even if input source is set to "iPod Assign", if the AVR-1508 is not connected to a Control dock for iPod, the input source can be used as the normal input source.

8 Audio Delay

Compensate for mismatched timing between video and audio.

[Display]



Delay audio.

This sets the delay time for audio signals.

[Variable range] **0 ms** ~ **200 ms**

With a movie source, for example, adjust so that the movement of the actors' lips is synchronized with the sound.



This cannot be adjusted when playing in the EXT. IN, DIRECT or STEREO mode (with "Front Speaker" set to "Large", "Tone Defeat" to "ON" and "Room EQ" to "OFF").

9 EXT. IN Subwoofer Level

Set the subwoofer level for playback.
Select according to the player in use.

[Display]

1.SP 2.In 3.0F

Input Setup ²

9 EXT.In SW +15 ²

[Selectable items]

0dB **+5dB** **+10dB** :

Select according to the player in use.

+15dB :

This is the recommended level.

10 Auto Preset Memory

Use the auto preset function to program radio stations.

[Display]

1.SP 2.In 3.0F

Input Setup ²

10 Preset <Start ²

Press the ◀ button to start.

- "CH" blinks on the display and searching begins.
- "Completed" appears once searching is completed.



If an FM station cannot be preset automatically, select the desired station by tuning it in manually, then preset it manually.

Option Setup

Make various other settings.

- 1 ~ 3 **Volume Control**
- 4 **Auto Surround Mode**
- 5 **Room EQ Setup**
- 6 **Direct Mode Setup**
- 7 **Remote ID Setup**

1 ~ 3 Volume Control

Set the main zone volume setting.

[Display]

1.SP 2.In 3.0F

Option Setup ³

1 Limit OFF ³

2 P.On LAST ³

3 Mute FULL ³

Volume Limit

Make a setting for maximum volume.

[Selectable items]

- OFF** : Do not set a maximum volume.
- 20dB** : Set the maximum volume to -20 dB.
- 10dB** : Set the maximum volume to -10 dB.
- 0dB** : Set the maximum volume to 0 dB.

Power On Level

This sets the volume set when the main zone's power is turned on.

[Selectable items]

- Last** : Use the memorized setting from the last session.
- : Always use the muting on condition when power is turned on.
- 80dB ~ +18dB** : Set the volume level when the power is turned on in units of 1 dB.

Mute Level

This sets the amount of attenuation of the volume when the mute mode is set in the main zone.

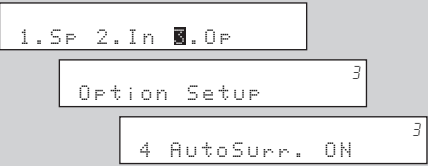
[Selectable items]

- Full** : The sound is cut off entirely.
- 40dB** : The sound is attenuated by 40 dB.
- 20dB** : The sound is attenuated by 20 dB.

4 Auto Surround Mode

Make setting for memorizing surround mode setting for each input signal type.

[Display]



[Selectable items]

- ON** : Memorize settings. Most recently stored surround mode is automatically selected.
- OFF** : Do not memorize settings. Surround mode does not change according to input signal.



The auto surround mode function lets you store in the memory the surround mode last used for playing the three types of input signals listed below.

- ① Analog and PCM 2-channel signals (STEREO)
 - ② 2-channel signals of Dolby Digital, DTS or other multi-channel format (DOLBY PLIIx Cinema)
 - ③ Multi-channel signals of Dolby Digital, DTS or other multichannel format (DOLBY/DTS SURROUND)
- ※ Default settings are indicated in ().

5 Room EQ Setup

Select room EQ setting method.

[Display]



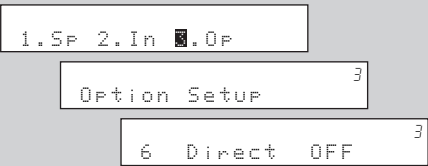
[Selectable items]

- All** : Apply settings to all surround modes.
- Assign** : Make settings for each surround mode separately.

6 Direct Mode Setup

Select room EQ use for DIRECT mode.

[Display]



[Selectable items]

- ON** : Use room EQ.
- OFF** : Do not use room EQ.

7 Remote ID Setup

Set remote control ID.

[Display]



[Selectable items]

- 1
- 2
- 3
- 4

NOTE

When using the AVR-1508 with only the included remote control unit (RC-1076), there is no need to make settings. When using a separately sold remote control unit (RC-7000CI, etc.), this function can be used. Match the ID setting of the remote control unit and the receiver.

Surround Modes

Standard Playback

This is the standard mode for enjoying surround sound according to the program source.

Surround Playback of 2-channel Sources

To select these surround modes using the **SELECT/ENTER** knob on the main unit or press the **STD** button on the remote control unit. The mode switches each time the button is pressed.

❑ When using a surround back speaker

[Selectable items] **DOLBY PLIIx** **DTS NEO:6**

❑ When not using a surround back speaker

[Selectable items] **DOLBY PLII** **DTS NEO:6**

DOLBY PLIIx or **DOLBY PLII** : The signals are decoded in DOLBY PLIIx or DOLBY PLII for playback.

→ **Cinema** : This mode is suited for movie sources.

→ **Music** : This mode is suited for music sources.

→ **Game** : This mode is suited for games.

→ **Pro Logic** : This is the Pro Logic playback mode. This can be selected when playing with a DOLBY PLII decoder. When this mode is selected, "DOLBY PL" is displayed.

DTS NEO:6 : The signals are decoded in DTS NEO:6 for playback.

→ **Cinema** : This mode is suited for movie sources.

→ **Music** : This mode is suited for music sources.



Select the "Cinema", "Music", "Game" and "Pro Logic" modes at "Surround Parameter" – "MODE" (page 28).

Playing Multi-channel Sources (Dolby Digital, DTS, etc.)

[Selectable items]

STANDARD :

This mode is for decoding the input signals according to their format and playing surround sound.

The display when the STANDARD mode is selected depends on the input signal and surround back output playback mode.

Input signal		Display
Dolby Digital Source	DOLBY DIGITAL (other than 2ch) / DOLBY DIGITAL EX	DOLBY DIGITAL
		DOLBY DIGITAL EX
		DOLBY DIGITAL+PLIIx CINEMA
		DOLBY DIGITAL+PLIIx MUSIC
DTS Surround Source	DTS (5.1ch) / DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 / DTS 96/24	DTS SURROUND
		DTS+PLIIx CINEMA
		DTS+PLIIx MUSIC
		DTS+NEO:6
		DTS ES MTRX6.1 (*1)
		DTS ES DSCRT6.1 (*2)
		DTS 96/24 (*3)

*1 : This is displayed when the input signal is "DTS-ES Matrix 6.1"

*2 : This is displayed when the input signal is "DTS-ES Discrete 6.1"

*3 : This is displayed when the input signal is "DTS 96/24"



• For details, see page 49.

• To select these surround modes using the **SELECT/ENTER** knob on the main unit or press the **STD** button on the remote control unit.

• Operate the **SURROUND BACK** button on the main unit to switch Surround Back channel on/off. The SURROUND BACK indicator lights the **SURROUND BACK** button on the main unit is on.

DSP Simulation Playback

The desired mode according to the program source and viewing situation can be selected from among 7 DENON original surround modes.

The surround parameters can be adjusted (page 47, 48) to achieve an even more realistic, powerful sound field.

[Selectable items]

5CH / 7CH STEREO *1 : This mode is for enjoying stereo sound from all speakers.

ROCK ARENA : This mode is for enjoying the atmosphere of a live concert in an arena.

JAZZ CLUB : This mode is for enjoying the atmosphere of a live concert in a jazz club.

MONO MOVIE *2 : This mode is for playing monaural movie sources with surround sound.

VIDEO GAME : This mode is suited for achieving surround sound with video games.

MATRIX : This mode lets you add a sense of expansion to stereo music sources.

VIRTUAL : This mode is for enjoying surround effects using only the front speakers or headphones.

*1: "5CH STEREO" is displayed when "Surround Parameter" – "SB CH OUT" is set to "OFF" (page 29).

*2: When playing sources recorded in monaural in the MONO MOVIE mode, the sound will be off balance with a single channel (left or right), so input to both channels.



• To select these surround modes using the **SELECT/ENTER** knob on the main unit, press the **SIMU** button on the remote control unit. The mode switches each time the button is pressed.

• Depending on the program source being played, it may not be possible to achieve a satisfactory surround effect. In this case, try other modes to achieve a sound field suited to your tastes.

Stereo Playback

[Selectable items]

STEREO :

This is the mode for playing in stereo. The tone can be adjusted.
Sound is output from the front left and right speakers and subwoofer.

Direct Playback

[Selectable items]

DIRECT :

In this mode the signals bypass the tone adjustment circuitry for high quality sound.
The sound is output to the same channels as the input signal.
The display when the DIRECT mode is selected depends on the input signal.

Input signal	Display
Analog signal / PCM (2ch) / Dolby Digital source / DTS source / Other 2-channel digital signals	DIRECT



- For details, see page 49.
- To select these surround modes using the **SELECT/ENTER** knob on the main unit, press the **D/ST** button on the remote control unit. The mode switches each time the button is pressed.

Parameter

Surround Parameter

Adjust surround sound parameters.
The adjustable parameters differ for the different surround modes (page 47, 48).

- ① Press the **SURR. PARA** button on the main unit or the **PARA** button on the remote control unit.
- ② Press the **Δ ▽** button to select the Item, then press the **◀ ▶** button to set.

MODE

Select the mode according to the playback source.

☐ In the PLIIx or PLII mode

[Selectable items] **CINEMA** **MUSIC** **GAME** **PL** *

*: Can be selected in the PLII mode.

☐ In the DTS NEO:6 mode

[Selectable items] **CINEMA** **MUSIC**

CINEMA : Surround sound mode optimized for movie sources.

MUSIC : Surround sound mode optimized for music sources.

GAME : Surround sound mode optimized for games.

PL : Dolby Pro Logic playback mode.



The MUSIC mode is also effective for movie sources including a lot of stereo music.

CINEMA EQ

Soften the treble range of movie soundtracks for better understanding.

[Selectable items]

ON : CINEMA EQ is used.

OFF : CINEMA EQ is not used.

D.COMP

Compress dynamic range (difference between loud and soft sounds).

[Selectable items]

OFF : Turn dynamic range compression off.

LOW : Low setting.

MID : Middle setting.

HIGH : High setting.



When playing DTS sources, this is only displayed for compatible software.

LFE

Adjust the low-frequency effects level (LFE).

[Variable range] **-10dB** ~ **0dB**



For proper playback of the different program sources, we recommend setting to the values below.

- Dolby Digital sources: "0 dB"
- DTS movie sources: "0 dB"
- DTS music sources: "-10 dB"

CENTER IMAGE

Assign center channel signal to front left and right channels for wider sound.

[Variable range] **0.0** ~ **0.3** ~ **1.0**

PANORAMA

Assign front L/R signal also to surround channels, for wider sound. If the surround effect seems weak, set "PANORAMA" to "ON".

[Selectable items] **ON** **OFF**

DIMENSION

Shift sound image center to front or rear, to adjust playback balance.

[Variable range] **0** ~ **3** ~ **6**

CENTER WIDTH

Assign center channel signal to front left and right channels for wider sound.

[Variable range] **0** ~ **3** ~ **7**

DELAY TIME

Adjust delay time to control sound stage size.

[Variable range] **0 ms** ~ **30 ms** ~ **300 ms**

EFFECT LEVEL

Adjust the strength of the surround effect.

[Variable range] **1** ~ **10** ~ **15**



Set to a lower level if the positioning and sense of phase of the surround signals seems unnatural.

ROOM SIZE

Determine size of acoustic environment.

[Selectable items]

small : Simulate acoustics of a small room.
med. s
medium
med. l
large : Simulate acoustics of a large room.

NOTE

"ROOM SIZE" does not indicate the size of the room in which sources are played.

SB CH OUT (for Multi-channel sources)

Select playback mode for surround back channels.

[Selectable items]

OFF : No signal is played from the surround back channels.
NON MTRX : The same signals as those of the surround channels are output from the surround back channels.
MTRX ON : The surround channel signals undergo digital matrix processing and are output from the surround back channels.
PLIIx CINEMA *1 : Decoded in Dolby Pro Logic IIx Cinema mode, surround back signal played.
PLIIx MUSIC *2 : Decoded in Dolby Pro Logic IIx Music mode, surround back signal played.
ES MTRX *3 : DTS signal played with digital matrix processing.
ES DSCRT *4 : Signal included in DTS-ES Discrete 6.1-channel sources played.

*1: This can be selected when "Surround Back Speaker" is set to "2spkr" at "System Setup" – "Speaker Setup" setting (page 22).

*2: This can be selected when "Surround Back Speaker" is set to "2spkr" or "1spkr" at "System Setup" – "Speaker Setup" setting.

*3: This can be selected when playing DTS sources.

*4: This can be selected when playing DTS sources including a discrete 6.1-channel signal identification signal.

SB CH OUT (for 2-channel sources)

Determine whether to use surround back speakers.

[Selectable items]

ON : The surround back channel signal is played.
OFF : The surround back channel signal is not played.



This operation can be performed directly pressing the **SURROUND BACK** button on the main unit.

SUBWOOFER ATT.

Attenuate subwoofer level when using EXT. IN mode.

[Selectable items]

ON : The input from the subwoofer channel is attenuated.
OFF : The input from the subwoofer channel is not attenuated. Usually use in this mode.



Set this to "ON" if the subwoofer channel level seems too high when playing Super Audio CD.

Subwoofer

Turn subwoofer output on and off.

[Selectable items]

ON : The subwoofer is used.
OFF : The subwoofer is not used.

Default

Resets the settings to the default values.

Tone Control

Adjust the tonal quality of the sound.

Tone Defeat

Turn tone adjustments off.

[Selectable items]

- ON** : Playback without tone adjustment.
- OFF** : Allow tone adjustment (treble, bass).



The tone cannot be adjusted when in the DIRECT mode.

Bass

Adjust low frequency range (bass).

[Variable range] **-14dB ~ 14dB**

Treble

Adjust high frequency range (treble).

[Variable range] **-14dB ~ 14dB**



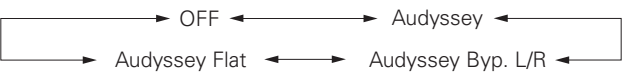
“Bass” and “Treble” can be set when “Tone Defeat” is set to “OFF”.

Room EQ

Select the desired room equalization target.

[Selectable items]

- Audyssey** : Optimize frequency response of all speakers.
- Audyssey Byp. L/R** : Optimize frequency response of speakers except front L and R speakers.
- Audyssey Flat** : Optimize frequency response of all speakers to flat response.
- OFF** : Turn equalizer off.



- When “Audyssey” is selected, “Audyssey MultEQ” indicator lights green.
- When “Audyssey Byp. L/R” or “Audyssey Flat” is selected, or when the auto setup measuring results have changed, “Audyssey MultEQ” indicator lights red.



- “Audyssey,” “Audyssey Byp. L/R” and “Audyssey Flat” can be selected after the auto setup procedure has been performed.
- If the settings of the speakers for which “None” has been determined at “Auto Setup” are changed, “Audyssey,” “Audyssey Byp. L/R” and “Audyssey Flat” cannot be selected and measurements have to be taken again to include the newly-added speakers.
- When using headphones, “Room EQ” is always set to “OFF”.

RESTORER

This function restores compressed audio signals to how they were before compression and corrects the sense of volume of the bass to obtain richer playback sound.

[Selectable items]

OFF :

Do not use RESTORER.

Mode1 (RESTORER 64):

Optimized mode for compressed sources with very weak highs.

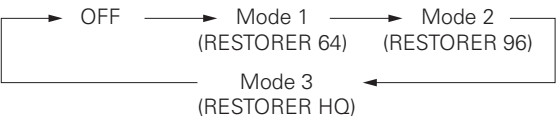
Mode2 (RESTORER 96):

Apply suitable bass and treble boost for all compressed sources.

Mode3 (RESTORER HQ):

Optimized mode for compressed sources with normal highs.

The default setting for “iPod” is “Mode3.” All others are set to “OFF”.



About the RESTORER function

- Such compressed audio formats as MP3, WMA (Windows Media Audio) and MPEG-4 AAC reduce the amount of data by eliminating signal components that are hard for the human ear to hear. The RESTORER function generates the signals eliminated upon compression, restoring the sound to conditions near those of the original sound before compression. It also corrects the sense of volume of the bass to obtain richer sound with compressed audio signals.
- This is displayed on the “Surround Parameter” and can be set when the analog signals (including AM/FM signals) or PCM signals (fs = 44.1/48 kHz) are input.

Night Mode

Optimized setting for late-night listening.

[Selectable items]

- OFF** : Turn night mode off.
LOW : Low setting.
MID : Middle setting.
HIGH : High setting.



Operating from the remote control unit

Press the **NIGHT** button.



Information

Information can be called out directly by pressing the **STATUS** button on the remote control unit.

- 1 **Status**
- 2 **Audio Input Signal**

1 Status

Shows information about current settings.

Shows information about settings.
 The items displayed differ according to the input source.

[Items to be checked]

Surround Mode	Select Source	Video Select
Digital Assignment	Audio Delay	TONE DEFEAT etc.

2 Audio Input Signal

Shows information about audio input signals.

[Items to be checked]

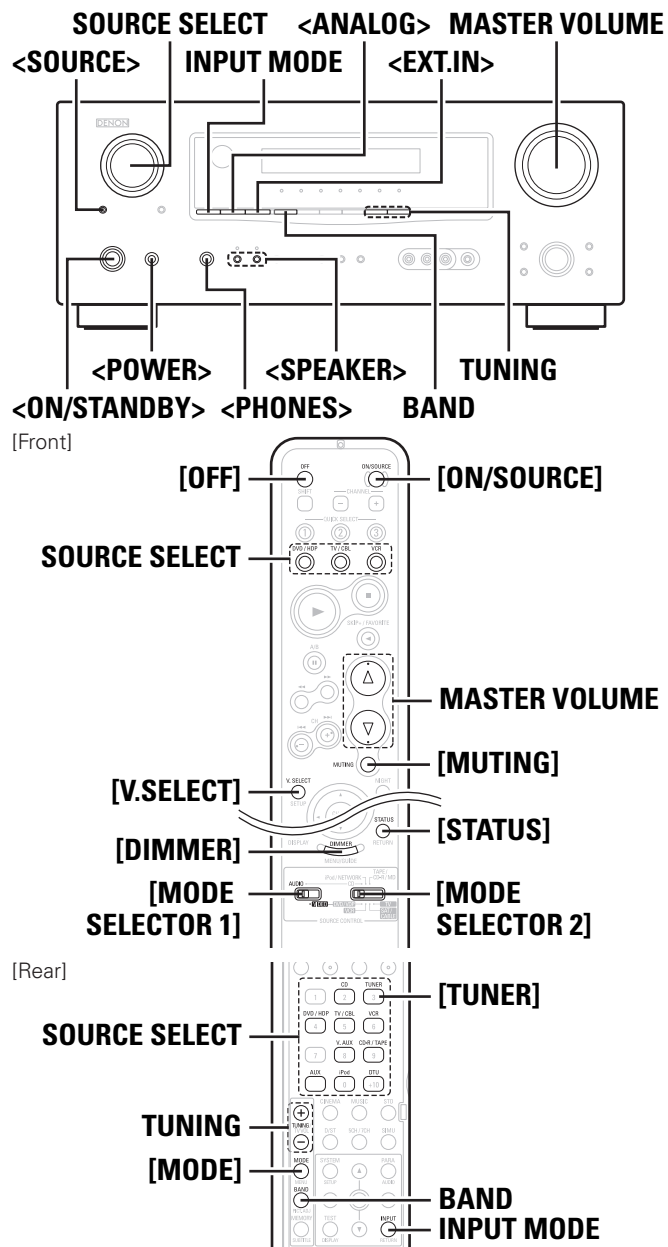
- Surround Mode** : The currently set surround mode is displayed.
- SIGNAL** : The input signal type is displayed.
- fs** : The input signal's sampling frequency is displayed.
- Format** : The number of channels in the input signal (front, surround, LFE) is displayed.
- Offset** : The dialogue normalization correction value is displayed.
- Flag** : "MATRIX" is displayed if the input signal has undergone matrix processing, "DISCRETE" if the input signal has undergone discrete processing.

Dialogue normalization function

This is automatically activated when playing Dolby Digital sources. This function automatically corrects the standard signal level for individual program sources. The correction value can be checked using the **STATUS** button on the remote control unit.

Offset -4dB

The figure is the correction value when the standard level is corrected.



Playback

Preparations

Turning the Power On

- 1 Press **<POWER>**.
The power indicator lights red and the power is set to the standby mode.
- 2 Press **<ON/STANDBY>** or **[ON/SOURCE]**.
The power indicator flashes green and the power turns on.

Turning the Power Off

- ① Press **<ON/STANDBY>** or **[OFF]**.
The power is set to the standby mode.
- ② Press **<POWER>**.
The power indicator turns off, and so does the power.

NOTE

Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time or when traveling, either press **<POWER>** to turn off the power, or unplug the power cord from the power outlet.

Selecting the input source

Operation on the main unit

Turn **<SOURCE SELECT>**.



If "Rec Select" is selected for the input source, press **<SOURCE>** before turning **<SOURCE SELECT>**.

Operation on the remote control unit

Press **[SOURCE SELECT]**.

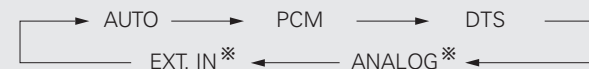
The desired input source can be selected directly.

Setting the Input Mode

Set the input mode for this source.

Press INPUT MODE.

The INPUT mode indicator lights (AUTO, PCM, DTS mode).



※ Press **<ANALOG>** to select "ANALOG", **<EXT.IN>** to select "EXT.IN".

[Selectable items]

- AUTO** : Detect type of digital input signal and decode and play automatically.
- PCM** : Decode and play only PCM input signals.
- DTS** : Decode and play only DTS input signals.
- ANALOG** : Play only signals from analog input.
- EXT. IN** : Play only signals from EXT. IN input.



- When a digital signal is properly input, the "**DIGITAL**" indicator lights on the display. If the "**DIGITAL**" indicator does not light, check the digital input connector assignment and the connections.
- The surround mode cannot be set if the input mode is set to "EXT. IN".
- Only set "PCM" and "DTS" when playing the respective signals.

Operations During Playback

Adjusting the Master Volume

Either turn **<MASTER VOLUME>** or press **[MASTER VOLUME]**.

Turning Off the Sound Temporarily (Muting)

Press **[MUTING]**.



To cancel, press **[MUTING]** again. Muting can also be canceled by adjusting the master volume.

Listening with Headphones

Plug the headphones into **<PHONES>**.

The sound from the speakers and pre-out connectors is automatically cut.

NOTE

Be careful not to set the volume too high when using headphones.

Switching the front speakers

Press **<SPEAKER>**.

Video Select Function

Switch video input source while listening to audio signal.

Press **[V. SELECT]** until the desired picture appears.

※ To cancel, press **[V. SELECT]** to select "SOURCE".

NOTE

- It is not possible to select HDMI input signals.
- When playing HDMI video input signals, the analog video signal of another input source cannot be selected for the HDMI video output.

Checking the currently playing program source, etc.

Press **[STATUS]**.

The current program source and various settings are indicated on the display.
For details, refer to "Information" (page 31).

Switching the brightness of the display (Dimmer)

Press **[DIMMER]**.



Playing Video and Audio Equipment

Basic Operation

1 Prepare the equipment.

- ① Load the DVD, CD or other software in the player.
(See the operating instructions of the respective devices.)
- ② To play a video device, switch the monitor input.
(See the monitor's operating instructions.)

2 Use **SOURCE SELECT** to select the input source.

3 Set **[MODE SELECTOR 1]** to "AUDIO" or "VIDEO". (page 40 "Remote Control Unit Operations")

4 Set **[MODE SELECTOR 2]** to the component you want to operate.

5 Start playback. (See the operating instructions of the respective devices.)

Listening to FM/AM Broadcasts

Basic Operation

1 Either turn **<SOURCE SELECT>** or press **[TUNER]** to select "TUNER".

2 Set **[MODE SELECTOR 1]** to "AUDIO". (page 40 "Remote Control Unit Operations")

3 Press **BAND** to select "FM" or "AM".

4 Tune in the desired broadcast station.

① To tune in automatically (Auto Tuning)

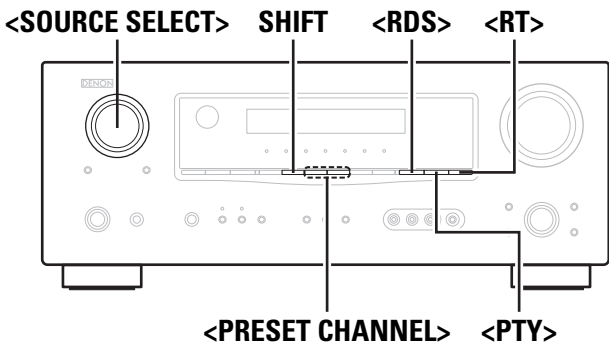
Press **[MODE]** to light the "AUTO" indicator on the display, then use **TUNING** to select the station you want to hear.

② To tune in manually (Manual Tuning)

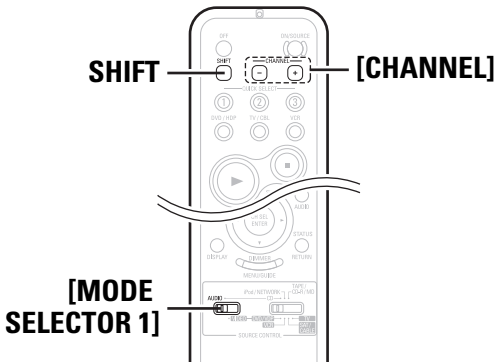
Press **[MODE]** to turn off the display's "AUTO" indicator, then use **TUNING** to select the station you want to hear.



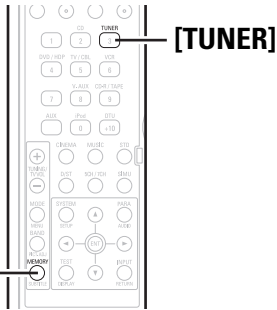
- It is also possible to switch to "FM" or "AM" in step 1 by pressing **[TUNER]**.
- If the desired station cannot be tuned in with auto tuning, tune it in manually.
- When tuning in stations manually, press and hold **TUNING** to change frequencies continuously.



[Front]



[Rear]



Presetting Radio Stations
(Preset Memory)

Your favorite broadcast stations can be preset so that you can tune them in easily. Up to 56 stations can be preset.

- 1 Tune in the broadcast station you want to preset.
- 2 Press [MEMORY].
- 3 Press SHIFT to select the block (A to G) in which the station is to be preset.
- 4 Press <PRESET CHANNEL> or [CHANNEL] to select the preset number (1 to 8).
- 5 Press [MEMORY] again to complete the setting.



- To preset other stations, repeat steps 1 to 5.
- Stations can be preset automatically at “System Setup” – “Input Setup” – “Auto Preset Memory” (page 25).

NOTE

Preset stations are erased by overwriting them.

Listening to Preset Stations

- 1 Press SHIFT to select the memory block (A to G).
- 2 Press <PRESET CHANNEL> or [CHANNEL] to select the desired preset channel (1 to 8).

Default settings

Auto tuner presets	
A1 ~ A8	87.5 / 89.1 / 98.1 / 108.0 / 90.1 / 90.1 / 90.1 / 90.1 MHz
B1 ~ B8	522 / 603 / 999 / 1404 / 1611 kHz, 90.1 / 90.1 / 90.1 MHz
C1 ~ C8	90.1 MHz
D1 ~ D8	90.1 MHz
E1 ~ E8	90.1 MHz
F1 ~ F8	90.1 MHz
G1 ~ G8	90.1 MHz

About the button names in these explanations
< > : Buttons on the main unit
[] : Buttons on the remote control unit
Button name only:
Buttons on the main unit and remote control unit

RDS (Radio Data System)

RDS (works only on the FM band) is a broadcasting service which allows a station to send additional information along with the regular radio program signal.

The following three types of RDS information can be received with this unit:

Program Type (PTY)

PTY identifies the type of RDS program.

The program types and their displays are as follows:

NEWS	News	WEATHER	Weather
AFFAIRS	Current Affairs	FINANCE	Finance
INFO	Information	CHILDREN	Children's programmes
SPORT	Sports	SOCIAL	Social Affairs
EDUCATE	Education	RELIGION	Religion
DRAMA	Drama	PHONE IN	Phone In
CULTURE	Culture	TRAVEL	Travel
SCIENCE	Science	LEISURE	Leisure
VARIED	Varied	JAZZ	Jazz Music
POP M	Pop Music	COUNTRY	Country Music
ROCK M	Rock Music	NATION M	National Music
EASY M	Easy Listening Music	OLDIES	Oldies Music
LIGHT M	Light Classical	FOLK M	Folk Music
CLASSICS	Serious Classical	DOCUMENT	Documentary
OTHER M	Other Music		

Traffic Program (TP)

TP identifies programs that carry traffic announcements.

This allows you to easily find out the latest traffic conditions in your area before leaving home.

Radio Text (RT)

RT allows RDS stations to send text messages that appear on the display.

NOTE

The operations described below using **<RDS>**, **<PTY>** and **<RT>** will not function in areas in which there are no RDS broadcasts.

RDS Search

Use this function to automatically tune to FM stations that provide the RDS service.

1 Either turn **<SOURCE SELECT>** or press **[TUNER]** to select **"TUNER"**.

2 Set **[MODE SELECTOR 1]** to **"AUDIO"**.
(☞ page 40 "Remote Control Unit Operations")

3 Press **<RDS>** until **"RDS SEARCH"** appears on the display.

4 Press **<PRESET CHANNEL>** or **[CHANNEL]**.
The search for RDS stations begins automatically.
※ If no RDS stations are found with the above operation, all the reception bands are searched.
※ When a broadcast station is found, that station's name appears on the display.

5 To continue searching, repeat steps 2 to 3.
※ If no RDS station is found when all the frequencies have been searched, **"NO RDS"** is displayed.

PTY Search

Use this function to find RDS stations broadcasting a designated program type (PTY).
For a description of each program type, refer to "Program Type (PTY)".

1 Either turn **<SOURCE SELECT>** or press **[TUNER]** to select **"TUNER"**.

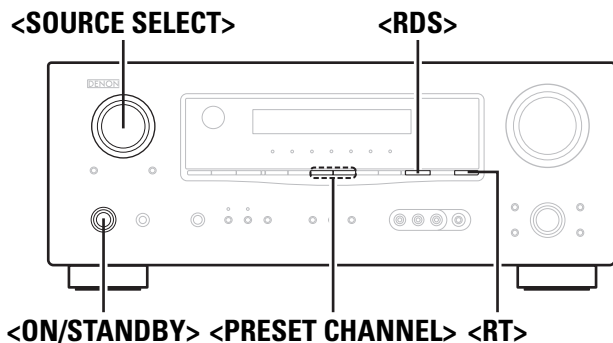
2 Set **[MODE SELECTOR 1]** to **"AUDIO"**.
(☞ page 40 "Remote Control Unit Operations")

3 Press **<RDS>** until **"PTY SEARCH"** appears on the display.

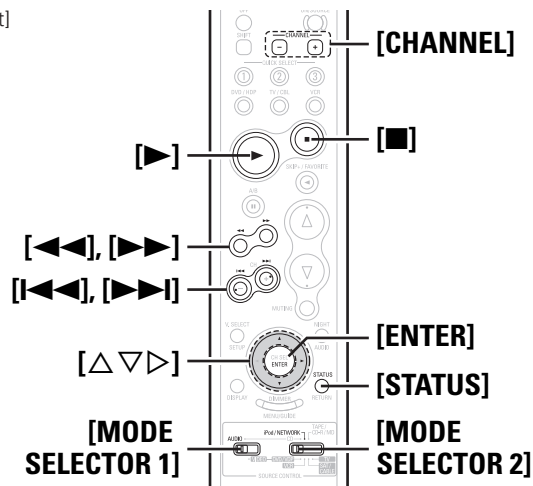
4 Watching the display, press **<PTY>** to call out the desired program type.

5 Press **<PRESET CHANNEL>** or **[CHANNEL]**.
PTY search begins automatically.
※ If there is no station broadcasting the designated program type with the above operation, all the reception bands are searched.
※ The station name is displayed on the display after searching stops.

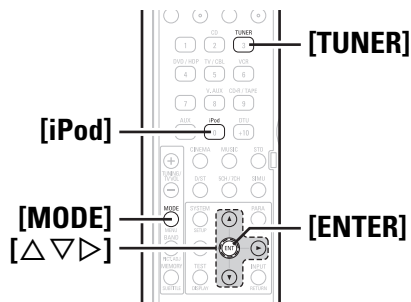
6 To continue searching, repeat steps 2 to 4.
※ If no station broadcasting the designated program type is found when all the frequencies have been searched, **"NO PROGRAMME"** is displayed.



[Front]



[Rear]



About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

TP Search

Use this function to find RDS stations broadcasting traffic programs (TP stations).

1 Either turn <SOURCE SELECT> or press [TUNER] to select “TUNER”.

2 Set [MODE SELECTOR 1] to “AUDIO”.
(☞ page 40 “Remote Control Unit Operations”)

3 Press <RDS> until “TP SEARCH” appears on the display.

4 Press <PRESET CHANNEL> or [CHANNEL].
TP search begins automatically.

※ If no TP station is found with the above operation, all the reception bands are searched.

※ The station name is displayed on the display after searching stops.

5 To continue searching, repeat steps 2 to 3.

※ If no other TP station is found when all the frequencies have been searched, “NO PROGRAMME” is displayed.

RT (Radio Text)

“RT” appears on the display when radio text data is received.

1 Either turn <SOURCE SELECT> or press [TUNER] to select “TUNER”.

2 Set [MODE SELECTOR 1] to “AUDIO”.
(☞ page 40 “Remote Control Unit Operations”)

3 Press <RT>.

※ While receiving an RDS broadcast station, the text data broadcast from the station is displayed.

※ To turn the display off, press <RT>.

※ If no text data is being broadcast, “NO TEXT DATA” is displayed.

iPod® Playback

The music on an iPod can be played by using the Control Dock for iPod (ASD-1R, sold separately).

The operation can also be performed using the buttons on the remote control unit.



iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

※ The iPod may only be used to copy or play contents that are not copyrighted or contents for which copying or playback is legally permitted for your private use as an individual. Be sure to comply with applicable copyright legislation.

Basic Operation

1 Make the necessary preparations.

- ① Set the iPod in the DENON Control Dock for iPod.
(See the Control Dock for iPod's operating instructions.)
- ② Assign the Control Dock for iPod's input.

"System Setup" – "Input Setup" – "iPod Assign"

(page 24)

2 Either turn <SOURCE SELECT> or press [iPod] to select the input source assigned in step 1-② above.

Remote iPod

※ If the displays above are not displayed, the iPod may not be properly connected. Try connecting again.

3 Set [MODE SELECTOR 1] to "AUDIO" and [MODE SELECTOR 2] to "iPod/NETWORK".

(page 40 "Remote Control Unit Operations")



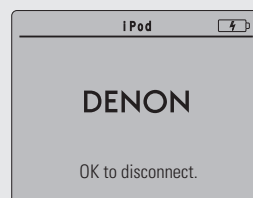
- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
- Use the RESTORER mode to expand the low and high frequency components of compressed audio files and achieve a richer sound. The default setting is "Mode3" (page 30).
- Press <ON/STANDBY> and set the AVR-1508's power to the standby mode before disconnecting the iPod. Also switch the input source to one to which "iPod Assign" is not assigned before disconnecting the iPod.

NOTE

- Depending on the type of iPod and the software version, some functions may not operate.
- DENON will accept no responsibility whatsoever for any loss of iPod data.

Listening to Music in the Browse mode

1 Press [MODE] for 2 seconds or more, to change from Remote Mode to Browse Mode.



(iPod screen)

2 Use [△▽] to select the menu, then press [ENTER] or [▷] to select the music file to be played.

3 Press [ENTER] or [▷].

Playback starts.

Stopping playback temporarily

During playback, press [ENTER] or [▷]. Press again to resume playback.

Fast-forwarding or fast-reversing

During playback, either press and hold [△] (to fast-reverse) or [▽] (to fast-forward), or press [◀◀] or [▶▶].

To cue to the beginning of a track

During playback, either press [△] (to cue to the previous track) or [▽] (to cue to the next track), or press [◀◀] or [▶▶].

To stop

During playback, either press and hold [ENTER] or press [■].

Playing repeatedly

Press [CHANNEL -].

[Selectable items] **All** **One** **OFF**

Shuffling playback

Press [CHANNEL +].

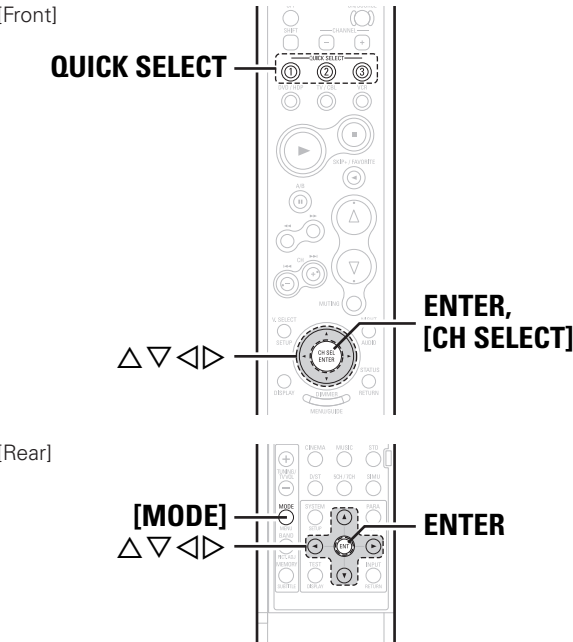
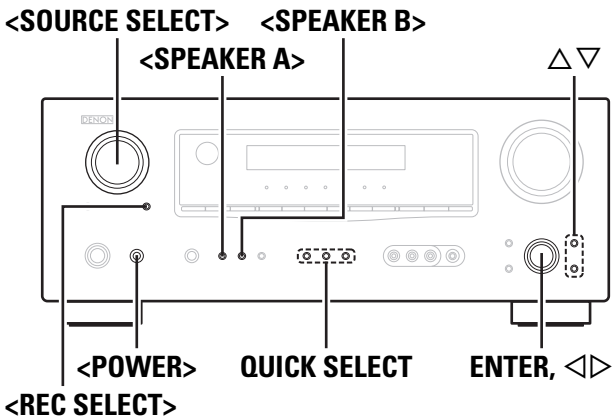
[Selectable items] **Albums** **Songs** **OFF**

To switch between the Browse and Remote modes

Either press and hold [MODE].



- The title name, artist name and album name can be checked by pressing [STATUS] during playback.
- On the AVR-1508, folder and file names can be displayed as titles. Any characters that cannot be displayed are replaced with " . (period)".



About the button names in these explanations

< > : Buttons on the main unit
[] : Buttons on the remote control unit

Button name only:
Buttons on the main unit and remote control unit

Viewing Still Pictures or Videos on the iPod

Photo and video data on the iPod can be viewed on the monitor. Only for iPod equipped with slideshow or video functions. (When using an ASD-1R)

- 1 Press and hold [MODE] to set the Remote mode.
- 2 Watching the iPod's screen, use [ΔΔ] to select "Photos" or "Videos".
- 3 Press [ENTER] until the image you want to view is displayed.

"TV Out" at the iPod's "Slideshow Settings" or "Video Settings" must be set to "On" in order to display the iPod's photo data or videos on the monitor. For details, see the iPod's operating instructions.

Other Operations and Functions

Other Operations

Recording on an External Device (REC OUT mode)

You can listen to one program source while recording a different program source.

- 1 Press <REC SELECT>.
- 2 Turn <SOURCE SELECT> to choose the input source to be recorded.
The "REC" indicator and the indicator for the selected source light.
RECOUT SOURCE ↔ RECOUT TUNER ↔ ↔ RECOUT V.AUX
- 3 Play the program source.
For operating instructions, refer to the respective equipment's operating instructions.
To record FM or AM broadcasts, select the broadcast (see page 33).
- 4 Start recording.
For operating instructions, refer to the respective equipment's operating instructions.



- To cancel, press **<REC SELECT>**, then turn **<SOURCE SELECT>** until "RECOUT SOURCE" is displayed.
- Make a test recording before starting the actual recording.

NOTE

- Recordings you make are for your personal enjoyment and should not be used for other purposes without permission of the copyright holder.
- Digital signals are not output from the REC OUT (CDR/TAPE and VCR) connector.

Convenient Functions

Channel Level

You can adjust the channel level either according to the playback sources or to suit your taste, as described below.

1 Press **<ENTER>** or **[CH SELECT]**.

FL Vol.+ 1.5dB

2 Use **△▽**, **<ENTER>** or **[CH SELECT]** to select the speaker.

The speaker that can be set switches each time one of the buttons is pressed.

3 Use **◁▷** to adjust the volume.

※ "OFF" can be set by pressing **◁** when the subwoofer's volume is set to -12 dB.

Quick Select Function

With this function, the currently playing input source, input mode, surround mode, room EQ settings and volume can be stored in the memory.

1 Set the input source, input mode, surround mode, room EQ settings and volume to the conditions you want to store.

2 Press and hold **QUICK SELECT** until "Memory" appears on the display.

[Quick Select Defaults]

	Input Source	Volume
Quick Select 1	DVD/HDP	-40 dB
Quick Select 2	TV/CBL	-40 dB
Quick Select 3	VCR	-40 dB



To call out the settings, press **QUICK SELECT** at which the desired settings were stored.

Personal Memory Plus Function

This function sets the settings (input mode, surround mode, etc.) last selected for the individual input sources.

When you switch to an input source, the settings are automatically set to the ones that were set the last time that input source was used.



The surround parameters, tone control, room EQ settings and the volumes of the different speakers are stored for the individual surround modes.

Last Function Memory

This stores the settings as they were directly before the standby mode was set.

When the power is turned back on, the settings are restored to as they were directly before the standby mode was set.

Backup Memory

The various settings are backed up for about 1 week, even if the power is turned off or the power cord is disconnected.

Resetting the Microprocessor

Perform this procedure if the display is abnormal or if operations cannot be performed.

When the microprocessor is reset, all the settings are reset to their default values.

1 Turn off the power using **<POWER>**.

2 Press **<POWER>** while simultaneously pressing **<SPEAKER A>** and **<SPEAKER B>**.

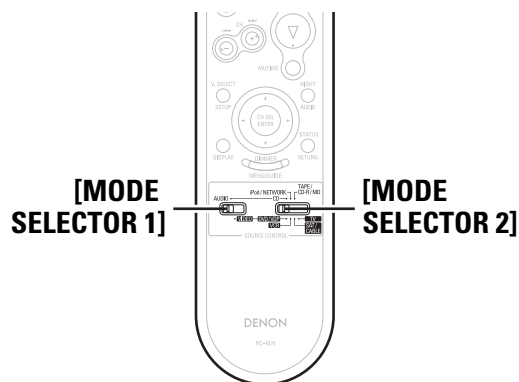
3 Once the display starts flashing at intervals of about 1 second, release the two buttons.



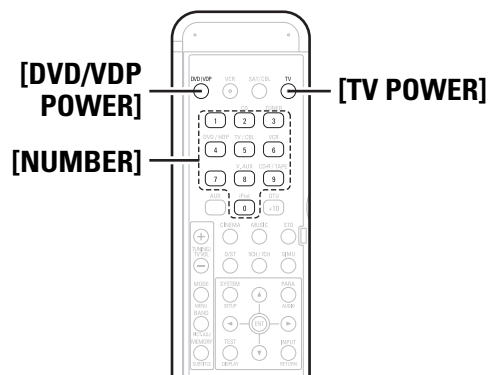
If in step 3 the display does not flash at intervals of about 1 second, start over from step 1.

Remote Control Unit Operations

[Front]



[Rear]



Depending on the model and year of manufacture of your equipment, some buttons may not operate.

Operating DENON Audio Components

1 Set [MODE SELECTOR 1] to “AUDIO”.

2 Set [MODE SELECTOR 2] to the position for the component to be operated (CD, iPod/NETWORK or TAPE/CD-R/MD).

3 Operate the audio component.

- ※ For details, refer to the component’s operating instructions.
- ※ While this remote control is compatible with a wide range of infrared controlled components, it may be the case that some component models cannot be operated with this remote control.

Presetting

- DENON and other makes of components can be operated by setting the preset memory.
- Operation is not possible for some models.

1 Set [MODE SELECTOR 1] to “AUDIO” or “VIDEO”.

- ※ Set to the AUDIO side for the CD, iPod/NETWORK or TAPE/CD-R/MD position, and to the VIDEO side for the DVD/VDP, VCR, SAT/CABLE or TV position.

2 Set [MODE SELECTOR 2] to the component to be registered.

3 Press [DVD/VDP POWER] and [TV POWER] at the same time.

The indicator starts flashing.

4 Press [NUMBER] and input the 3-digit number of the brand of the component to be preset. The numbers are shown in the Preset Code Table (100 End of this manual).

5 To store the codes of another component in the memory, repeat steps 1 to 4.



- The signals for the pressed buttons are emitted while setting the preset memory. To avoid accidental operation, cover the remote control unit’s transmitting window while setting the preset memory.
- Depending on the model and year of manufacture, this function cannot be used for some models, even if they are of makes listed in the list of preset codes.
- Some manufacturers use more than one type of remote control code. Refer to the included list of preset codes to change the number and verify correct operation.
- The preset memory can be set for one component only among the following: TAPE/CD-R/MD, DVD/VDP and SAT/CABLE.

Operating Preset Components

1 Set [MODE SELECTOR 1] to “AUDIO” or “VIDEO”.

- ※ Set to the AUDIO side for the CD, iPod/NETWORK or TAPE/CD-R/MD position, and to the VIDEO side for the DVD/VDP, VCR, SAT/CABLE or TV position.

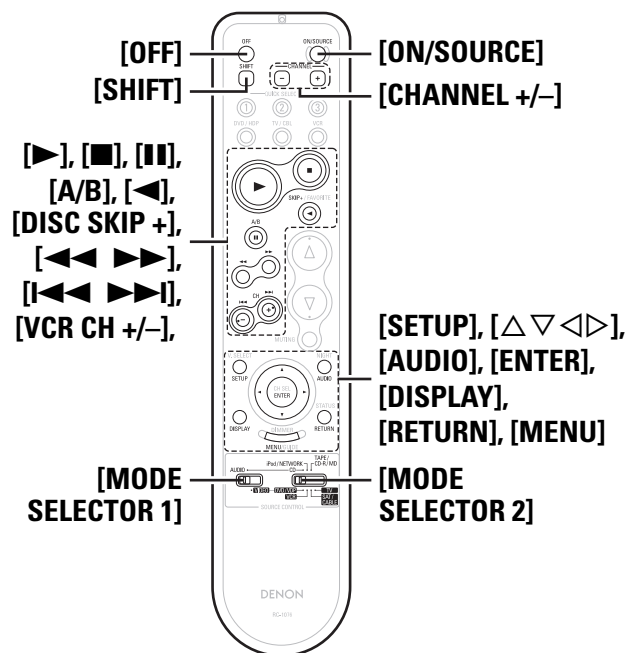
2 Set [MODE SELECTOR 2] to the component you want to operate.

3 Operate the component.

- ※ For details, refer to the component’s operating instructions.
- ※ Some models cannot be operated with this remote control unit.

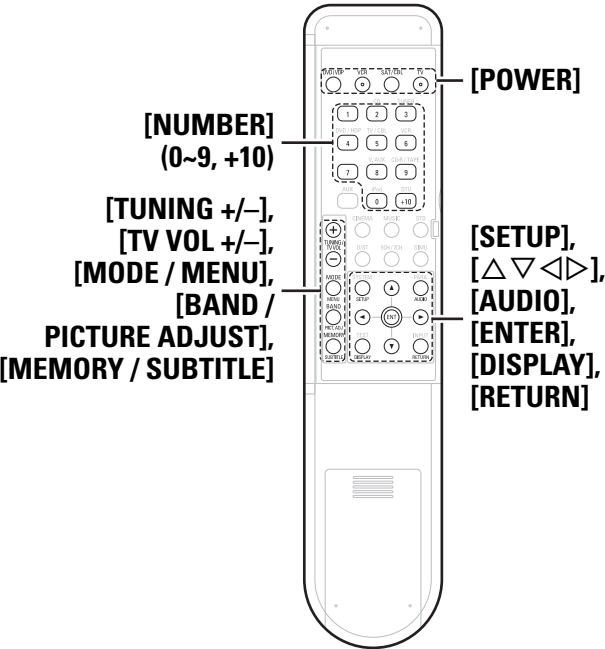
Functions of Buttons by Component

□ Front



Device operated	CD Player	iPod	CD Recorder	MD Recorder	Tape Deck	DVD Player	Video disc player	Video Deck	Satellite Receiver	Cable TV	TV (Monitor)	
MODE SELECTOR 1	AUDIO					VIDEO						
MODE SELECTOR 2	CD	iPod/ NETWORK	TAPE / CD-R / MD			DVD / VDP		VCR	SAT / CABLE		TV	
OFF	—					Power off	—					
ON/SOURCE	—					Power on	Power on / Standby					
SHIFT	Preset channel selection					—						
CHANNEL +	Preset channel selection	1-track/ album shuffle play	Preset channel selection			Switch Channels (+)						
CHANNEL −	Preset channel selection	1-track/All-track repeat play	Preset channel selection			Switch Channels (−)						
▶	Play	Play / Pause	Play						Punch through			
■	Stop											
II, A/B	Pause	—	Pause		A/B switching	Pause						
◀, DISC SKIP +	Disc skip +	—			Reverse play	Disc skip	—					
◀◀ ▶▶	Manual Search (fast-reverse / fast-forward)				Rewind Fast forward	Manual Search (fast-reverse / fast-forward)						
I◀◀ ▶▶I VCR CH + / −	Auto search (cue)				—	Auto search (cue)		Switch Channels (−, +)				
SETUP	—					Setup	—					
△ ▽ ◀ ▶	—	Cursor	—			Cursor operation	—		Cursor operation			
AUDIO	—					Switching the audio signal	—					
ENTER	—	Enter	—			Enter setting	—		Enter setting			
DISPLAY	—					Switching the display	—		Switching the display			
RETURN	—					Return	—		Return			
MENU	—					Calling out the menus	—		Calling out the menus			

❑ Rear

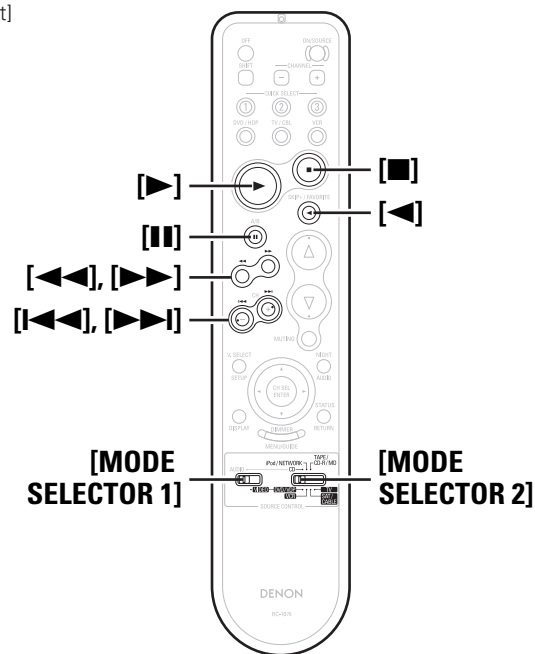


Device operated	CD Player	iPod	CD Recorder	MD Recorder	Tape Deck	DVD Player	Video disc player	Video Deck	Satellite Receiver	Cable TV	TV (Monitor)
MODE SELECTOR 1	AUDIO					VIDEO					
MODE SELECTOR 2	CD	iPod/ NETWORK	TAPE / CD-R / MD			DVD / VDP		VCR	SAT / CABLE		TV
POWER	—					Power on / Power off					
NUMBER (0 ~ 9, +10)	—					Number input / Track selection		—	Channels		
TUNING (+, -) / TV VOL (+, -)	Tuning (+, -)					Volume control (+, -)					
MODE / MENU	Switch search modes	Switch search modes / Browse/Remote mode switching (Press and hold)	Switch search modes			Calling out the menus	—		Calling out the menus		
SETUP	—					Setup	—				
△ ▽ ◀ ▶	—					Cursor operation	—		Cursor operation		
AUDIO	—					Audio	—				
BAND / PICTURE ADJUST	AM / FM switching					Picture adjust	—				
ENTER	—					Enter setting	—		Enter setting		
MEMORY / SUBTITLE	Preset memory					Subtitle	—				
DISPLAY	—					Switching the display	—		Switching the display		
RETURN	—					Return	—		Return		
Default setting (Preset code)	DENON (111)	—	DENON (151)	—		DENON (111)	—	HITACHI (108)	—	ABC (007)	HITACHI (134)
Special Remarks	①	—	①			①, ②		①	①, ③		①, ③

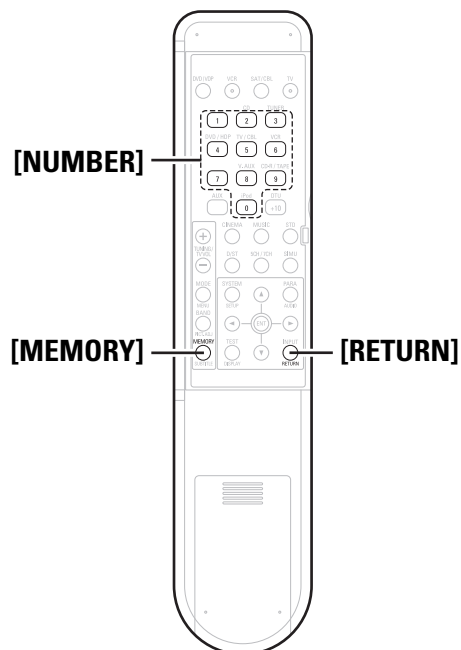
【Special Remarks】

- ① Only one device can be set in the preset memory for each mode. Also, when a new code is preset, the previous code is automatically deleted.
- ② For some brands, the DVD remote control buttons may have different function names. Check beforehand.
- ③ One of the following buttons can be assigned to the TV and satellite tuner or cable TV: CD, iPod/NETWORK, TAPE/CD-R/MD, DVD/VDP, VCR (☞ page 43 “Punch Through Function”).

[Front]



[Rear]



Punch Through Function

"Punch Through" is a function allowing you to operate ►, ■, ■■, ◀, ◀◀, ▶▶, ◀◀◀ and ▶▶▶ on CD, iPod/NETWORK, TAPE/CD-R/MD, DVD/VDP or VCR components when in the SAT/CABLE or TV mode. By default, nothing is set.

1 Set [MODE SELECTOR 1] to "VIDEO".

2 Set [MODE SELECTOR 2] to the component to be registered (SAT/CABLE or TV).

3 Press [MEMORY] and [RETURN] at the same time.
The indicator starts flashing.

4 Input the number of the component you want to set.

	No.
CD	1
iPod/NETWORK	2
TAPE/CD-R/MD	3
DVD/VDP	4
VCR	5
No setting	0

Other Information

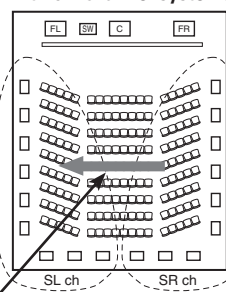
About Speaker Installation

Surround back speakers

Sound positioning directly to the rear can be achieved easily by adding a surround back speaker to a 5.1-channel system.

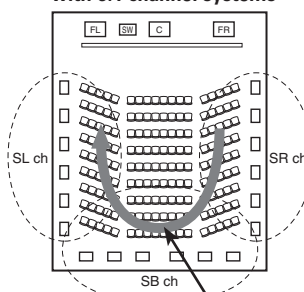
In addition, the acoustic image extending between the sides and the rear is narrowed, thus greatly improving the expression of the surround signals for sounds moving from the sides to the back and from the front to the point directly behind the listening position.

Change of positioning and acoustic image with 5.1-channel systems



Movement of acoustic image from SR to SL

Change of positioning and acoustic image with 6.1-channel systems



Movement of acoustic image from SR to SB to SL

In addition to sources recorded in 6.1-channels, the surround effect of conventional 2- to 5.1-channel sources can also be enhanced.

Number of surround back speakers

We recommend using 2 speakers.
When using dipolar speakers in particular, be sure to use 2 speakers.

Placement of the surround left and right channels when using surround back speakers

We recommend installing the speakers for the surround "L" and "R" channels a bit forward.

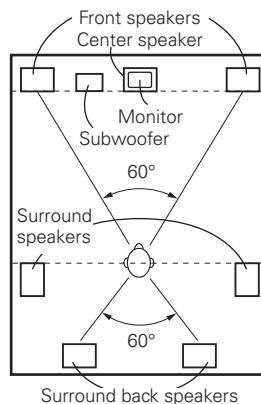
Examples of speaker layouts

Below we introduce examples of speaker layouts. Refer to these to arrange your speakers according to their type and how you want to use them.

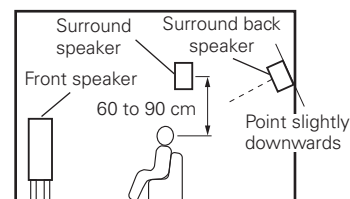
[1] Using surround back speaker(s)

① When mainly playing movies

Recommended when your surround speakers are single or 2-way speakers.



[As seen from above]

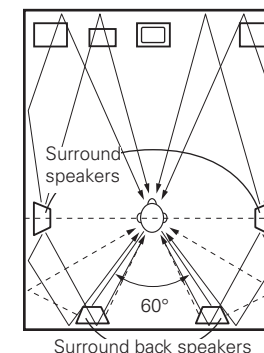


[As seen from the side]

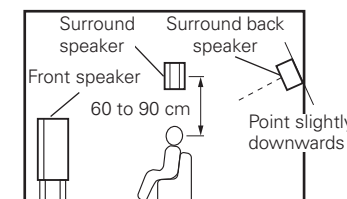
② Setting for primarily watching movies using diffusion type speakers for the surround speakers

For the greatest sense of surround sound envelopment, diffuse radiation speakers such as bipolar types, or dipolar types, provide a wider dispersion than is possible to obtain from a direct radiating speaker (monopolar). Place these speakers at either side of the prime listening position, mounted above ear level.

Path of the surround sound from the speakers to the listening position

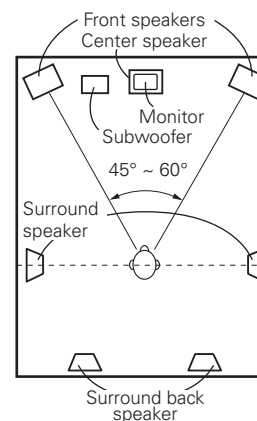


[As seen from above]

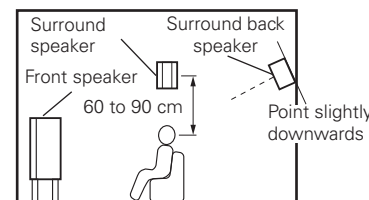


[As seen from the side]

③ When playing movies and music

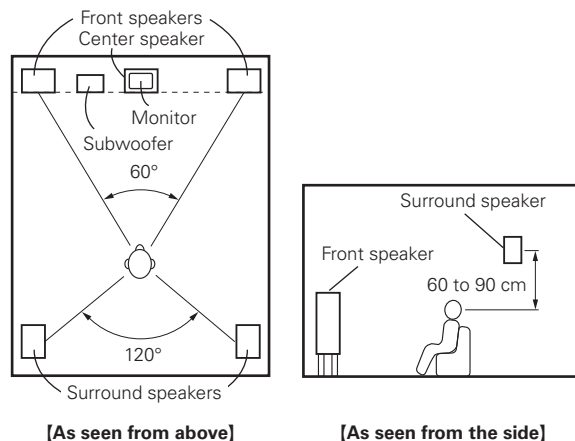


[As seen from above]



[As seen from the side]

[2] When not using surround back speakers



Surround

The AVR-1508 is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

Dolby Surround

Dolby Digital

Dolby Digital is a multichannel digital signal format developed by Dolby Laboratories.

A total of 5.1-channels are played: 3 front channels ("FL", "FR" and "C"), 2 surround channels ("SL" and "SR") and the "LFE" channel for low frequencies.

Because of this, there is no crosstalk between channels and a realistic sound field with a "three-dimensional" feeling (sense of distance, movement and positioning) is achieved.

A real, overpowering sense of presence is achieved when playing movie sources in AV rooms as well.

Dolby Pro Logic II

Dolby Pro Logic II is a matrix decoding technology developed by Dolby Laboratories.

Regular music such as that on CDs is encoded into 5-channels to achieve an excellent surround effect.

The surround channel signals are converted into stereo and full band signals (with a frequency response of 20 Hz to 20 kHz or greater) to create a "three-dimensional" sound image offering a rich sense of presence for all stereo sources.

Dolby Pro Logic IIx


Dolby Pro Logic IIx is a further improved version of the Dolby Pro Logic II matrix decoding technology.

Audio signals recorded in 2-channels are decoded to achieve a natural sound with up to 7.1-channels.

There are 3 modes: "Music" suited for playing music, "Cinema" suited for playing movies, and "Game" which is optimized for playing games.

※ Sources recorded in Dolby Surround

Sources recorded in Dolby Surround are indicated with the following logo marks.

Dolby Surround support mark :  **DOLBY SURROUND**

Manufactured under license from Dolby Laboratories.

"Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

DTS Surround

DTS Digital Surround

DTS Digital Surround is the standard digital surround format of DTS, Inc., compatible with a sampling frequency of 44.1 or 48 kHz and up to 5.1-channels of digital discrete surround sound.

DTS-ES™ Discrete 6.1

DTS-ES™ Discrete 6.1 is a 6.1-channel discrete digital audio format adding a surround back (SB) channel to the DTS digital surround sound. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

DTS-ES™ Matrix 6.1

DTS-ES™ Matrix 6.1 is a 6.1-channel discrete digital audio format inserting a surround back (SB) channel to the DTS digital surround sound through matrix encoding. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

DTS NEO:6™ Surround

DTS NEO:6™ is a matrix decoding technology for achieving 6.1-channel surround playback with 2-channel sources. It includes "DTS NEO:6 CINEMA" suited for playing movies and "DTS NEO:6 MUSIC" suited for playing music.

DTS 96/24

DTS 96/24 is a digital audio format enabling high sound quality playback in 5.1-channels with a sampling frequency of 96 kHz and 24 bit quantization on DVD-Video.

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,003,467 & other U.S. and worldwide patents issued & pending. DTS, DTS Digital Surround, ES, and Neo:6 are registered trademarks and the DTS logos, Symbol and DTS 96/24 are trademarks of DTS, Inc.© 1996-2007 DTS, Inc. All Rights Reserved.

Audyssey MultEQ®

Audyssey MultEQ® is a technology designed to provide the optimum listening environment for multiple listeners within the listening area. Test data collected from multiple listening points is analyzed comprehensively and equalization that improves the sound quality for the entire listening area is performed.

Audyssey MultEQ not only corrects frequency response problems in large listening areas, it also fully automates the surround system setup.

For a detailed description, see page 18.



Audyssey MultEQ® is a trademark of Audyssey Laboratories. It is licensed under US and National Patent Applications 20030235318 and 10/700,220. Additional U.S. and Foreign Patents pending. MultEQ and the Audyssey MultEQ logo are trademarks of Audyssey Laboratories, Inc.. All rights reserved.

HDMI
(High-Definition Multimedia Interface)

HDMI is a digital interface standard for next generation TVs based on DVI (Digital Visual Interface) standards and optimized for use in consumer equipment.

Non-compressed digital video and multi-channel audio signals are transmitted with a single connection.

HDMI is also compatible with HDCP (High-bandwidth Digital Contents Protection), a technology for protecting copyrights that encrypts digital video signals in the same way as with DVI.

Deep Color

Eliminates on-screen color banding, for smooth tonal transitions and subtle gradations between colors.

Enables increased contrast ratio.

Can represent many times more shades of gray between black and white.

At 30-bit pixel depth, a four times improvement would be the minimum, and the typical improvement would be eight times or more.

xvYCC

Next-generation “xvYCC” color space supports 1.8 times as many colors as existing HDTV signals.

Lets HDTVs display colors more accurately.

Enables displays with natural, vivid colors.

“HDMI”, “HDMI logo” and “High-Definition Multimedia Interface” are trademarks or registered trademarks of HDMI Licensing LLC.

Surround Modes and Parameters

Surround mode	Signals and adjustability in the different modes													
	Channel output					Parameter (default values are shown in parentheses)								
	Front L/R	Center	Surround L/R	Surround Back L/R	Subwoofer	D. COMP *1	LFE *2	SB CH OUT	CINEMA EQ.	MODE	ROOM SIZE	EFFECT LEVEL	DELAY TIME	Subwoofer
DIRECT	○	×	×	×	⊙	○ (OFF)	○ (0 dB)	×	×	×	×	×	×	○
STEREO	○	×	×	×	⊙	○ (OFF)	○ (0 dB)	×	×	×	×	×	×	×
EXT. IN	○	⊙	⊙	⊙	⊙	×	×	×	×	×	×	×	×	×
DOLBY PRO LOGIC IIx	○	⊙	⊙	⊙	⊙	○ (OFF)	×	○	○ (NOTE1)	○ (CINEMA)	×	×	×	×
DOLBY PRO LOGIC II	○	⊙	⊙	×	⊙	○ (OFF)	×	○	○ (NOTE2)	○ (CINEMA)	×	×	×	×
DTS NEO:6	○	⊙	⊙	⊙	⊙	○ (OFF)	×	○	○ (NOTE1)	○ (CINEMA)	×	×	×	×
DOLBY DIGITAL	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	○	○ (OFF)	×	×	×	×	×
DTS SURROUND	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	○	○ (OFF)	×	×	×	×	×
5CH / 7CH STEREO	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	○	×	×	×	×	×	×
ROCK ARENA	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	○	×	×	○ (medium)	○ (10)	×	×
JAZZ CLUB	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	○	×	×	○ (medium)	○ (10)	×	×
MONO MOVIE	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	○	×	×	○ (medium)	○ (10)	×	×
VIDEO GAME	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	○	×	×	○ (medium)	○ (10)	×	×
MATRIX	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	○	×	×	×	×	○ (30 ms)	×
VIRTURL	○	×	×	×	⊙	○ (OFF)	○ (0 dB)	×	×	×	×	×	×	×

○ : Signal / Adjustable

× : No signal / Not adjustable

⊙ : Turned on or off by speaker configuration setting

NOTE1 : This parameter is available when "Surround Parameter" – "MODE" is set to "CINEMA" (page 28).

NOTE2 : This parameter is available when "Surround Parameter" – "MODE" is set to "CINEMA" or "PL" (page 28).

NOTE:

*1 : When playing Dolby Digital and DTS signals.

*2 : When playing Dolby Digital, DTS, DVD-Audio and Super Audio CD.

Getting Started	Surround mode	Signals and adjustability in the different modes								
		Parameter (default values are shown in parentheses)								
		PRO LOGIC II/IIx MUSIC mode only			NEO:6 MUSIC mode only	EXT. IN only	Tone Control	Night Mode	Room EQ	RESTORER
		PANORAMA	DIMENSION	CENTER WIDTH	CENTER IMAGE	SUBWOOFER ATT.				
Connections	DIRECT	×	×	×	×	×	×	○ (OFF)	○ (NOTE4)	○
	STEREO	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
	EXT. IN	×	×	×	×	○	×	×	×	×
	DOLBY PRO LOGIC IIx	○ (OFF)	○ (3)	○ (3)	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
Setup	DOLBY PRO LOGIC II	○ (OFF)	○ (3)	○ (3)	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
	DTS NEO:6	×	×	×	○ (0.3)	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
	DOLBY DIGITAL	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	×
	DTS SURROUND	×	×	×	×	×	○ (0 dB)	○ (NOTE5)	○ (OFF)	×
Playback	5CH / 7CH STEREO	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
	ROCK ARENA	×	×	×	×	×	○ (NOTE3)	○ (OFF)	○ (OFF)	○
	JAZZ CLUB	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
	MONO MOVIE	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
Remote Control	VIDEO GAME	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
	MATRIX	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
	VIRTURL	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
		○ : Adjustable × : Not adjustable NOTE3 : BASS +6 dB, TREBLE +4 dB NOTE4 : Can be used according to the "Direct Mode" setting. NOTE5 : This parameter is not available when the input signal is "DTS 96/24".								
Information										
Troubleshooting										

Differences in Surround Mode Names Depending on the Input Signals

Button		Note	Input signals											
Surround mode	ANALOG		LINEAR PCM	DTS				DOLBY DIGITAL					DVD-AUDIO	
				DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	DVD-Audio (multi ch)	DVD-Audio (2ch)
STANDARD														
DTS SURROUND														
DTS ES DSCRT6.1		*1	×	×	●	×	×	×	×	×	×	×	×	×
DTS ES MTRX6.1		*1	×	×	×	●	×	×	×	×	×	×	×	×
DTS SURROUND			×	×	○	○	●	×	×	×	×	×	×	×
DTS 96/24			×	×	×	×	×	●	×	×	×	×	×	×
DTS + PLIIx CINEMA		*2	×	×	○	○	○	○	×	×	×	×	×	×
DTS + PLIIx MUSIC		*1	×	×	○	○	○	○	×	×	×	×	×	×
DTS + NEO:6		*1	×	×	×	○	○	○	×	×	×	×	×	×
DTS NEO:6 CINEMA			○	○	×	×	×	×	×	×	×	×	○	○
DTS NEO:6 MUSIC			○	○	×	×	×	×	×	×	×	×	○	○
DOLBY SURROUND														
DOLBY DIGITAL EX		*1	×	×	×	×	×	×	○	○	○	○	×	×
DOLBY DIGITAL			×	×	×	×	×	×	○	●	●	●	×	×
DOLBY DIGITAL + PLIIx CINEMA		*2	×	×	×	×	×	×	●	○	○	○	×	×
DOLBY DIGITAL + PLIIx MUSIC		*1	×	×	×	×	×	×	○	○	○	○	×	×
DOLBY PRO LOGIC IIx CINEMA			○	○	×	×	×	×	×	×	×	×	●	×
DOLBY PRO LOGIC IIx MUSIC			○	○	×	×	×	×	×	×	×	×	○	×
DOLBY PRO LOGIC IIx GAME			○	○	×	×	×	×	×	×	×	×	○	×
DOLBY PRO LOGIC II CINEMA			○	○	×	×	×	×	×	×	×	×	○	×
DOLBY PRO LOGIC II MUSIC			○	○	×	×	×	×	×	×	×	×	○	×
DOLBY PRO LOGIC II GAME			○	○	×	×	×	×	×	×	×	×	○	×
DOLBY PRO LOGIC			○	○	×	×	×	×	×	×	×	×	○	×
DIRECT														
DIRECT			○	○	○	○	○	○	○	○	○	○	○	×
DSP SIMULATION														
5CH / 7CH STEREO		*3	○	○	○	○	○	○	○	○	○	○	○	○
ROCK ARENA			○	○	○	○	○	○	○	○	○	○	○	○
JAZZ CLUB			○	○	○	○	○	○	○	○	○	○	○	○
MONO MOVIE			○	○	○	○	○	○	○	○	○	○	○	○
VIDEO GAME			○	○	○	○	○	○	○	○	○	○	○	○
MATRIX			○	○	○	○	○	○	○	○	○	○	○	○
VIRTUAL			○	○	○	○	○	○	○	○	○	○	○	○
STEREO														
STEREO			●	●	○	○	○	○	○	○	○	○	○	○

NOTE:

*1: This mode is not available when the surround back speaker setup is set to "None".

*2: This mode is not available when the surround back speaker setup is set to "1spkr" or "None".

*3: If the surround back speaker setup is set to "None", then "5CH STEREO" is displayed.

● : Mode selectable in initial status

○ : Selectable mode

× : Non-selectable mode

[General]			
Symptom	Cause	Countermeasure	Page
Power does not turn on, or turns off directly after it was turned on.	<ul style="list-style-type: none"> • Connection of the power cord is faulty. 	<ul style="list-style-type: none"> • Check the insertion of the power cord plug. 	16
No sound is produced from speakers.	<ul style="list-style-type: none"> • Connection with the input devices or connection of the speaker cables is faulty. 	<ul style="list-style-type: none"> • Check the connections. 	9
	<ul style="list-style-type: none"> • Device you want to play and set input source do not match. 	<ul style="list-style-type: none"> • Select an appropriate input source. 	32
	<ul style="list-style-type: none"> • Master volume is turned too low. 	<ul style="list-style-type: none"> • Adjust the master volume to an appropriate level. 	32
	<ul style="list-style-type: none"> • Mute mode is set. 	<ul style="list-style-type: none"> • Cancel the mute mode. 	33
	<ul style="list-style-type: none"> • Headphones are connected. 	<ul style="list-style-type: none"> • Disconnect the headphones. 	33
	<ul style="list-style-type: none"> • No digital signals are being input. 	<ul style="list-style-type: none"> • Select an input source for which the digital input setting has been made. 	24
Display is off.	<ul style="list-style-type: none"> • The connectors to which the digital inputs are assigned and the settable input modes do not match. 	<ul style="list-style-type: none"> • Set the input mode. 	32
	<ul style="list-style-type: none"> • The Dimmer setting is set to "OFF". 	<ul style="list-style-type: none"> • Set to something other than "OFF". 	33
"DOLBY DIGITAL" indicator does not appear on display.	<ul style="list-style-type: none"> • DVD player's digital audio output setting is not proper. 	<ul style="list-style-type: none"> • Check the DVD player's audio output setting. For details, read the DVD player's operating instructions. 	—

[Remote Control Unit]			
Symptom	Cause	Countermeasure	Page
Set does not work properly when remote control unit operated.	• Batteries are worn.	• Replace with new batteries.	3
	• You are operating outside of the specified range.	• Operate within the specified range.	3
	• Obstacle between main unit and remote control unit.	• Remove the obstacle.	3
	• The batteries are not inserted in the proper direction, as indicated by the polarity marks in the battery compartment.	• Insert the batteries in the proper direction, following the polarity marks in the battery compartment.	3
	• The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.).	• Move the set to a place in which the remote control sensor will not be exposed to strong light.	3
	• The remote ID of the main unit and remote control unit do not match.	• Set "Remote ID" for the main unit to "1".	26

[Audio]

Symptom	Cause	Countermeasure	Page
No sound is produced from center speaker.	• You are playing a monaural source (TV, AM radio broadcast, etc.) in the STANDARD (Dolby/DTS Surround) mode.	• The mode is set to something other than "STANDARD (Dolby/DTS Surround)".	27
No sound is produced from surround speakers.	• The surround mode is set to "STEREO" or "DIRECT".	• Set to a surround playback mode.	28
No sound is produced from surround back speaker.	• Surround back speaker setting is set to "None". • Surround mode not set to a mode for 6.1- or 7.1-channel playback.	• Set to something other than "None". • Select a surround playback mode.	22 27
No sound is produced from subwoofer.	• Subwoofer's power not turned on. • The "Subwoofer" setting at "Speaker Configuration" is set to "No". • The subwoofer is not properly connected. • The subwoofer's volume is turned off.	• Turn on the subwoofer's power. • Set to "Yes". • Check the connections. • Adjust the subwoofer's volume to an appropriate level.	– 22 9 39
No test tones are produced when remote control unit's TEST button is pressed.	• Surround mode not set to "STANDARD (Dolby/DTS Surround)".	• Set to the STANDARD (Dolby/DTS Surround) mode.	27
DTS sound is not output.	• DVD player's audio output setting is not set to bitstream. • DVD player is not compatible with DTS sound playback. • The AVR-1508's "Input Mode" setting is set to other than "DTS".	• Set the DVD player. For details, refer to the DVD player's operating instructions. • Use a DTS-compatible player. • Set to the "Auto" or "DTS" mode.	– – 32
HDMI audio signals are not output from speakers.	–	• The audio signal input to the HDMI input terminal cannot be played on the AVR-1508. Input the audio signal to the digital audio input terminal or analog audio input terminal.	10

Symptom	Cause	Countermeasure	Page
No sound is output from the monitor connected with HDMI connections.	• HDMI input setting is improper.	• Check the HDMI input setting.	24

[Video]

Symptom	Cause	Countermeasure	Page
No picture appears.	• The connections between the AVR-1508 and monitor are faulty. • The monitor's input setting is wrong. • The player is connected using the component input connectors, the monitor is connected using the video (yellow) or S-Video output connectors.	• Check the connections. • Set properly. • High definition (1080i/720p) and progressive (480p/576p) video signals are not down-converted. Set the player to interlace (480i/576i) signals.	10 ~ 16 – –
No picture appears with HDMI connections.	• The connections to the HDMI connectors are faulty. • HDMI input setting is improper. • The HDMI format of the player and monitor do not match.	• Check the connections. • Check the HDMI input setting. • Match the HDMI format of the player and monitor.	10 24 10
DVDs cannot be copied on a VCR.	–	• This is not a malfunction. Most movie software includes copy prevention signals and cannot be copied.	–

[iPod]

Symptom	Cause	Countermeasure	Page
iPod cannot be played.	• The input source assigned to Control Dock for iPod is not selected. • Cable is not properly connected. • Control Dock for iPod's AC adapter is not connected to power outlet.	• Switch to the input source assigned at Control Dock for iPod. • Reconnect. • Plug the Control Dock for iPod's AC adapter into a power outlet.	24 12 –

Specifications

Audio section

- Power amplifier
- Rated output:

Front (A, B):
75 W + 75 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)
110 W + 110 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
Center:
75 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)
110 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
Surround:
75 W + 75 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)
110 W + 110 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
Surround Back:
75 W + 75 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)
110 W + 110 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
Front: A or B 6 ~ 16 Ω/ohms
A + B 12 ~ 16 Ω/ohms
Center, Surround, Surround Back: 6 ~ 16 Ω/ohms

Output terminals:

- Analog
- Input sensitivity / Input impedance: 200 mV / 47 kΩ/kohms
- Frequency response: 10 Hz ~ 100 kHz — +1, -3 dB (DIRECT mode)
- S/N: 98 dB (IHFA weighted, DIRECT mode)

Video section

- Standard video terminals
- Input / output level and impedance: 1 Vp-p, 75 Ω/ohms
- Frequency response: 5 Hz ~ 10 MHz — +1, -3 dB
- S-Video terminals
- Input / output level and impedance: Y (brightness) signal — 1 Vp-p, 75 Ω/ohms
C (color) signal — 0.3 (PAL) / 0.286 (NTSC) Vp-p, 75 Ω/ohms
- Frequency response: 5 Hz ~ 10 MHz — +1, -3 dB
- Color component video terminal
- Input / output level and impedance: Y (brightness) signal — 1 Vp-p, 75 Ω/ohms
P_B / C_B signal — 0.7 Vp-p, 75 Ω/ohms
P_R / C_R signal — 0.7 Vp-p, 75 Ω/ohms
- Frequency response: 5Hz ~ 30 MHz — +0, -3 dB

Tuner section

- Receiving Range:
- Usable Sensitivity:
- 50 dB Quieting Sensitivity:

S/N (IHFA):

Total harmonic Distortion (at 1 kHz):

	[FM]	[AM]
	(note: μV at 75 Ω/ohms, 0 dBf = 1 x 10 ⁻¹⁵ W)	
	87.5 MHz ~ 108.0 MHz	522 kHz ~ 1611 kHz
	1.0 μV (11.2 dBf)	18 μV
	MONO 1.6 μV (15.3 dBf)	
	STEREO 23 μV (38.5 dBf)	
	MONO 77 dB (IHFA weighted)	
	STEREO 72 dB (IHFA weighted)	
	MONO 0.15 %	
	STEREO 0.3 %	

General

- Power supply: AC 230 V, 50 Hz
- Power consumption: 410 W
0.3 W (Standby)
- Maximum external dimensions: 434 (W) x 171 (H) x 383 (D) mm
- Weight: 10.9 kg

Remote control unit (RC-1076)

- Batteries: R6P/AA Type (two batteries)
- Maximum external dimensions: 52 (W) x 243 (H) x 21 (D) mm
- Weight: 184 g (including batteries)

* For purposes of improvement, specifications and design are subject to change without notice.

**List of preset codes / Liste von voreingestellten Codes / Liste de codes pré-réglés / Lista dei codici pre-regolati /
Lista de códigos pre-ajustados / Lijst van voorinstelde codes / Förteckning över förinställda koder**

DVD Player

A	Aiwa	009
D	Denon	014, [111]*
H	Hitachi	010
J	JVC	006, 011
K	Konka	012, 013
M	Magnavox	005
	Mitsubishi	004
P	Panasonic	014
	Philips	005, 015, 016, 017
	Pioneer	003, 008
S	Sanyo	018
	Sony	002, 019, 020
T	Toshiba	001, 021, 022
Z	Zenith	023

VDP

D	Denon	028, 029, 112
M	Magnavox	026
	Mitsubishi	028
P	Panasonic	029, 030
	Philips	026
	Pioneer	028, 031
R	RCA	032
S	Sony	033, 034, 035, 036

VCR

A	Admiral	081
	Aiko	095
	Aiwa	009
	Akai	026, 027, 070, 072, 082, 083, 084
	Alba	055
	Amstrad	009
	ASA	042
	Asha	087
	Audio Dynamic	005, 085
	Audiovox	088
	Beaumarck	087
	Broksonic	086, 093
C	Calix	088
	Candle	006, 087, 088, 089, 090
	Canon	049, 057
	Capehart	025, 055, 056, 071
	Carver	015
	CCE	095
	Citizen	006, 007, 087, 088, 089, 090, 095
	Craig	007, 087, 088, 091, 115

	Curtis Mathes	006, 049, 073, 080, 087, 090, 092
	Cybernax	087
D	Daewoo	025, 055, 059, 074, 089, 093, 095, 096
	Daytron	025, 055
	DBX	005, 085
	Dumont	053
	Dynatech	009
E	Electrohome	001, 088, 097
	Electrosonic	088
	Emerson	001, 009, 017, 027, 086, 088, 089, 092, 093, 097, 100, 101, 102, 103, 104, 117
F	Fisher	009, 028, 031, 053, 054, 091, 099, 115
G	GE	007, 011, 049, 050, 051, 052, 073, 080, 087
	Go Video	047, 048
	Goldstar	000, 006, 012, 062, 088
	Gradiente	094
	Grundig	042
H	Harley Davidson	094
	Harman Kardon	040, 062
	Hi-Q	091
	Hitachi	009, 013, 023, 026, 058, [108]* , 109, 110, 111
J	JC Penny	004, 005, 007, 023, 028, 049, 062, 085, 087, 088
	Jensen	013, 026
	JVC	004, 005, 006, 026, 029, 043, 044, 045, 046, 085
K	Kenwood	004, 005, 006, 026, 029, 033, 045, 085, 090
	Kodak	088
L	Lloyd	009, 094
	LXI	088
M	Magnavox	015, 016, 042, 049, 063, 106
	Magnin	087
	Marantz	004, 005, 006, 015, 042, 049, 085, 090
	Marta	088
	MEI	049
	Memorex	009, 033, 049, 053, 060, 081, 087, 088, 091, 094, 115
	Metz	123, 124, 125, 126, 127, 128
	MGA	001, 017, 027, 041, 097
	MGN Technology	087
	Midland	011
	Minolta	013, 023
	Mitsubishi	001, 003, 008, 013, 014, 017, 027, 029, 039, 040, 041, 045, 097
	Motorola	081
	Montgomery Ward	001, 002, 007, 009, 049, 063, 081, 115, 117
	MTC	009, 087, 094

	Multitech	007, 009, 011, 087, 090, 094
N	NAD	038
	NEC	004, 005, 006, 018, 026, 029, 045, 061, 062, 085
	Nikko	088
	Noblex	087
O	Optimus	081, 088
	Optonica	021
P	Panasonic	024, 049, 064, 066, 067, 068, 069, 107
	Perdio	009
	Pentax	009, 013, 023, 058, 090
	Philco	015, 016, 049
	Philips	015, 021, 042, 049, 105
	Pilot	088
	Pioneer	005, 013, 029, 036, 037, 038, 045, 085
	Portland	025, 055, 090
	Proscan	063, 080
	Pulsar	060
Q	Quartz	033
	Quasar	034, 035, 049
R	Radio Shack	001, 002, 021, 081, 087, 088, 091, 094, 097, 098, 115
	Radix	088
	Randex	088
	RCA	007, 013, 019, 023, 058, 063, 064, 065, 073, 080, 082, 087, 009, 021, 031, 033, 049, 053, 081, 087, 088, 091, 094, 097, 098
	Realistic	
	Ricoh	055
S	Salora	033, 041
	Samsung	007, 011, 051, 059, 070, 083, 087, 089, 113
	Sanky	081
	Sansui	005, 026, 029, 045, 061, 085, 114
	Sanyo	032, 033, 053, 087, 091, 115, 116
	SBR	042
	Scott	017, 020, 086, 089, 093, 117
	Sears	013, 023, 028, 031, 033, 053, 054, 088, 091, 098, 099, 115
	Sentra	055
	Sharp	001, 002, 021, 097
	Shogun	087
	Sony	075, 076, 077, 078, 079, 121, 122
	STS	023
	Sylvania	009, 015, 016, 017, 041, 049, 094
	Symphonic	009, 094
T	Tandy	009
	Tashiko	009, 088
	Tatung	004, 026, 030

	Teac	004, 009, 026, 094
	Technics	024, 049
	TMK	087, 092
	Toshiba	013, 017, 020, 041, 059, 089, 098, 099, 117
	Totevision	007, 087, 088
U	Unirech	087
V	Vectra Research	005, 062, 085, 089, 090
	Victor	005, 045, 046, 085
	Video Concepts	005, 027, 085, 089, 090
	Videosonic	007, 087
W	Wards	013, 021, 023, 087, 088, 089, 091, 094, 097, 118, 119, 120
X	XR-1000	094
Y	Yamaha	004, 005, 006, 026, 062, 085
Z	Zenith	060, 078, 079

Television

A	Admiral	045, 121
	Adventura	122
	Aiko	054
	Akai	016, 027, 046
	Alleron	062
	A-Mark	007
	Amtron	061
	Anam	006, 007, 036
	Anam National	061, 147
	AOC	003, 007, 033, 038, 039, 047, 048, 049, 133
	Archer	007
	Audiovox	007, 061
B	Bauer	155
	Belcor	047
	Bell & Howell	045, 118
	Bradford	061
	Brockwood	003, 047
C	Candle	003, 030, 031, 032, 038, 047, 049, 050, 122
	Capehart	003
	Celebrity	046
	Circuit City	003
	Citizen	029, 030, 031, 032, 034, 038, 047, 049, 050, 054, 061, 095, 122, 123
	Concerto	031, 047, 049
	Colortyme	003, 047, 049, 135
	Contec	013, 051, 052, 061
	Cony	051, 052, 061
	Craig	004, 061
	Crown	029
	Curtis Mathes	029, 034, 038, 044, 047, 049, 053, 095, 118

D	Daewoo	027, 029, 039, 048, 049, 054, 055, 106, 107, 137
	Daytron	003, 049
	Dimensia	044
	Dixi	007, 015, 027
E	Electroband	046
	Electrohome	029, 056, 057, 058, 147
	Elta	027
	Emerson	029, 051, 059, 060, 061, 062, 118, 123, 124, 139, 148
	Envision	038
	Etron	027
F	Fisher	014, 021, 063, 064, 065, 118
	Formenti	155
	Fortress	012
	Fujitsu	004, 062
	Funai	004, 062
	Futuretech	004
G	GE	020, 036, 037, 040, 044, 058, 066, 088, 119, 120, 125, 147, 000, 015, 029, 031, 039, 048, 051, 056, 057, 067, 068, 069, 116
	Goldstar	
	Grundy	062
H	Hitachi	029, 031, 051, 052, 070, 111, 112, 113, 124, [134]*
	Hitachi Pay TV	151
I	Infinity	017, 071
J	Janeil	122
	JBL	017, 071
	JC Penny	020, 034, 039, 040, 041, 044, 048, 050, 058, 066, 069, 076, 088, 090, 095, 125, 136, 159
	JCB	046
	JVC	019, 051, 052, 072, 073, 091, 117, 126
K	Kawasho	018, 046
	Kenwood	038, 056, 057
	Kloss	010, 032
	Kloss Novabeam	005, 122, 127, 131
	KTV	074, 123
L	Loewe	071
	logik	144
	Luxman	031
	LXI	008, 014, 017, 024, 040, 044, 063, 071, 075, 076, 077, 118, 125
M	Magnavox	005, 010, 017, 030, 033, 038, 050, 056, 071, 078, 079, 085, 089, 108, 109, 110, 127, 131, 132, 145
	Marantz	015, 017, 071, 080
	Matsui	027
	Memorex	014, 027, 045, 083, 118, 144
	Metz	160, 161, 162, 163

MGA	001, 039, 048, 056, 057, 058, 065, 081, 083
Midland	125
Minutz	066
Mitsubishi	001, 016, 039, 048, 056, 057, 058, 065, 081, 082, 083, 105
Montgomery Ward	011, 020, 144, 145, 146
Motorola	121, 147
MTC	031, 034, 039, 048, 095
NAD	008, 075, 076, 128
National	002, 036, 061, 147
National Quenties	002
NEC	031, 038, 039, 048, 057, 084, 086, 135, 147
Nikko	054
NTC	054
Optimus	128
Optonica	011, 012, 093, 121
Orion	004, 139
Panasonic	002, 009, 017, 036, 037, 071, 141, 143, 147
Philco	005, 010, 030, 050, 051, 056, 079, 085, 127, 131, 132, 145, 147
Philips	005, 015, 017, 050, 051, 056, 078, 087, 088, 089, 131, 132, 147
Pioneer	124, 128, 142
Portland	054
Price Club	095
Proscan	040, 044, 125
Proton	035, 051, 092, 129
Pulsar	042
Quasar	036, 037, 074, 141
Radio Shack	011, 044, 063, 093, 118
RCA	040, 044, 125, 130, 137, 151, 152
Realistic	014, 063, 093, 118
Saisho	027
Samsung	003, 015, 034, 053, 055, 057, 094, 095, 136, 153
Sansui	139
Sanyo	013, 014, 021, 022, 063, 064, 081, 096
SBR	015
Schneider	015
Scott	062
Sears	008, 014, 021, 022, 023, 024, 025, 040, 052, 057, 062, 063, 064, 065, 073, 075, 076, 097, 098, 125, 159
Sharp	011, 012, 013, 026, 093, 099, 100, 104, 121
Siemens	013
Signature	045, 144
Simpson	050
Sony	043, 046, 138, 146, 150
Soundesign	030, 050, 062
Spectricon	007, 033

Squareview	004
Supre-Macy	032, 122
Supreme	046
Sylvania	005, 010, 017, 030, 078, 079, 085, 089, 101, 127, 131, 132, 145, 155
Symphonic	004, 148
Tandy	012, 121
Tatung	036, 124
Technics	037
Teknika	001, 030, 032, 034, 052, 054, 078, 083, 095, 144, 156, 157
Tera	035, 129
THOMSON	165, 166
Toshiba	008, 014, 034, 063, 075, 076, 095, 097, 136, 158, 159
Universal	020, 066, 088
Victor	019, 073, 126
Video Concepts	016
Viking	032, 122
Wards	005, 045, 066, 078, 085, 088, 089, 093, 102, 103, 131, 132, 148
Zenith	042, 114, 115, 140, 144, 149
Zonda	007

Cable

ABC	006, [007]*, 008, 009
Archer	010, 011
Century	011
Citizen	011
Colour Voice	012, 013
Comtronic	014
Eastern	015
Garrard	011
Gemini	030, 033, 034
General Instrument	030, 031, 032
Hytex	006
Jasco	011
Jerrold	009, 016, 017, 026, 032
Magnavox	018
Movie Time	019
NSC	019
Oak	000, 006, 020
Panasonic	001, 005
Philips	011, 012, 013, 018, 021
Pioneer	002, 003, 022
RCA	029
Regency	015
Samsung	014, 023
Scientific Atlanta	004, 024, 025
Signal	014
SL Marx	014
Starcom	009

Stargate	014
Teleview	014
Tocom	007, 016
TV86	019
Unika	011
United Artists	006
Universal	010, 011
Viewstar	018, 019
Zenith	027, 028

Satellite Receiver

Alphastar	054
Chaparrali	035, 036
Dishnet	053
Drake	037, 038
Echostar Dish	062, 066
GE	048, 055, 056
General Instruments	039, 040, 041
Grundig	070, 071, 072, 073
Hitachi	058, 059
Hughes Networkr	063, 064, 065, 069
JVC	057
Kathrein	074, 075, 076, 083
Magnavoxl	060
Nokia	070, 080, 084, 085, 086
Philips	060
Primestar	051
Proscan	048, 055, 056
RCA	048, 055, 056, 068
Realistic	042
Sierra I	036
Sierra II	036
Sierra III	036
Sony	049, 067
STS1	043
STS2	044
STS3	045
SRS4	046
Technisat	077, 078, 079, 081, 082
Toshiba	047, 050
Uniden	061

CD Player

Aiwa	001, 035, 043
Burmster	002
Carvery	003, 035
Denon	[111]*, 044
Emerson	004, 005, 006, 007
Fisher	003, 008, 009, 010
JVC	018, 019

Kenwood	011, 012, 013, 014, 017
Magnavox	006, 015, 035
Marantz	016, 028, 035
MCS	016, 024
Onkyo	025, 027
Optimus	017, 020, 021, 022, 023
Philips	014, 032, 033, 035
Pioneer	006, 022, 030
Sears	006
Sony	023, 031
Teac	002, 009, 028
Technics	016, 029, 036
Wards	035, 037
Yamaha	038, 039, 040, 041
Zenith	042

CD Recorder

Denon	[151]*, 112
philips	112

MD Recorder

Kenwood	053, 054
Onkyo	057
Sharp	055
Denon	113
Sony	056

Tape Dack

Aiwa	001, 002
Carver	002
Denon	111
Harman/Kardon	002, 003
JVC	004, 005
Kenwood	006
Magnavox	002
Marantz	002
Onkyo	016, 018
Optimus	007, 008
Panasonic	012
Philips	002
pioneer	007, 008, 009
Sony	013, 014, 015
Technics	012
Victor	004
Wards	007
Yamaha	010, 011

DVD preset codes DVD-Voreinstellungscodes Codes pré-réglés DVD Codici di preselezione DVD Códigos de preajuste de DVD DVD-voorkeuzecodes Förinställda DVD-koder	111 (default / standard / défaut / default / predeterminado / standaard / standard)				014
DENON Model No. Modellnr Modèle numéro Modello No Nº de modelo Modelnr Modellnr	DVD-555 DVD-755 DVD-900 DVD-910 DVD-955 DVD-1000 DVD-1200 DVD-1500 DVD-1710 DVD-1910	DVD-1930 DVD-2200 DVD-2800 DVD-2800II DVD-2900 DVD-2910 DVD-2930 DVD-3800 DVD-3910 DVD-3930	DVD-5900 DVD-5910 DVD-9000 DVM-715 DVM-1800 DVM-1805 DVM-1815 DVM-2815 DVM-4800	DVD-800 DVD-1600 DVD-2000 DVD-2500 DVD-3000 DVD-3300	

- []*: Preset codes set upon shipment from the factory.
- : Sie Voreinstellungscodes wurden vor der Auslieferung werkseitig eingestellt.
 - : Les codes pré-réglés différent en fonction des livraisons de l'usine.
 - : I codici di pre-settaggio sono impostati in fabbrica prima della consegna.
 - : Los códigos vienen preprogramados de fábrica.
 - : Vooringestelde codes bij het verlaten van de fabriek.
 - : Förinställda koder har ställts in vid transporten från fabriken.



DENON

www.denon.com

Denon Brand Company, D&M Holdings Inc.
Printed in China 00D 511 4642 003